

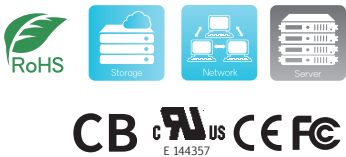
| AC index |

M / N		Watt	Page	M / N		Watt	Page
Redundant		250-2000W		UP0301A		30W	P35
UP1K21B	Open Frame	1200W	P01	UP0301M		30W	P36
UP8601B	Open Frame	860W	P02	UP0361K		36W	P37
UP6601B	Open Frame	660W	P03	UP0421K		42W	P38
UP2K01R	CRPS	2000W	P04	UP0481A		48W	P39
UP1K21R	CRPS	1200W	P05	UPD045B		USB PD	P40-41
UP1K22R	CRPS	1200W	P06	Adapter		Desktop 15 - 160W	
UP9201R	CRPS	920W	P07	UP0181V		15W	P42
UP8802R	CRPS	880W	P08	UP0451H		45W	P43-44
UP6001R	CRPS	600W	P09	UP0651S		65W	P45
UP5502R	CRPS	550W	P10	UP0851A		85W	P46
UP3001R	CRPS	300W	P11	UP1201A		120W	P47
UP2502R	CRPS	250W	P12	UP1601B		160W	P48
UP1502R	CRPS	150W	P13	Open & U Frame		5 - 65W	
Enclosed Chassis		50 - 75W		UP0051E		5W	P49
UP0501G		40 - 50W	P14	UP0051A		5W	P50-51
UP0751G		60 - 75W	P15	UP0091A		9W	P52
UP0601C		27 - 60W	P59-60	UP0151G		15W	P53
UP0651J		27 - 65W	P61-62	UP0201D		20W	P54-55
UP1501D		150W	P66-67	UP0301J		30W	P56-57
UP1501H		150W	P68-69	UP0361H		36W	P58
Adapter		Wall Mount 1.25 - 36W		UP0601C		2" x 4"	P59-60
UP0131Z (PA)		12.5 - 18W	P16	UP0651J		2" x 3"	P61-62
UP0131Z (MA)		12.5 - 18W	P17	UP0601F		60W	P63
UP0241Z (PA)		24W	P18	Open & U Frame		100 - 570W	
UP0241Z (MA)		24W	P19	UP1001B		Dual AC/DC Input	100W
UP0301Z (PA)		17.5 - 30W	P20	UP1302C		2.16" x 4.16"	P65
UP0301Z (MA)		17.5 - 30W	P21	UP1501D		3" x 5"	P66-67
UP0361Z (PA)		36W	P22	UP1501H		2" x 4"	P68-69
UP0361Z (MA)		36W	P23	UP2501C		250W	P70
dimension			P24-25	UP3001D		300 - 350W	P71
UP0011Q / UP0021Q				UP3053A		305W	P72-73
UP0031Q / UP0051Q		1.25 - 5W	P26	UP3001H		300W	P74
UP0061D		6W	P27	UP3501D		350W	P75
UP0061M		6W	P28	UP4001H		400W	P76
UP0121D		12W	P29	UP4602F		54V+12Vout	P77
UP0121M		12W	P30	UP5202F			
UP0181D		18W	P31	PV Inverter		50 - 75W	
UP0181M		18W	P32	UPV4000STLG		4000W	P78
UP0251D		24 - 25W	P33				
UP0251M		24 - 25W	P34				

UP1K21B-01XXG Series

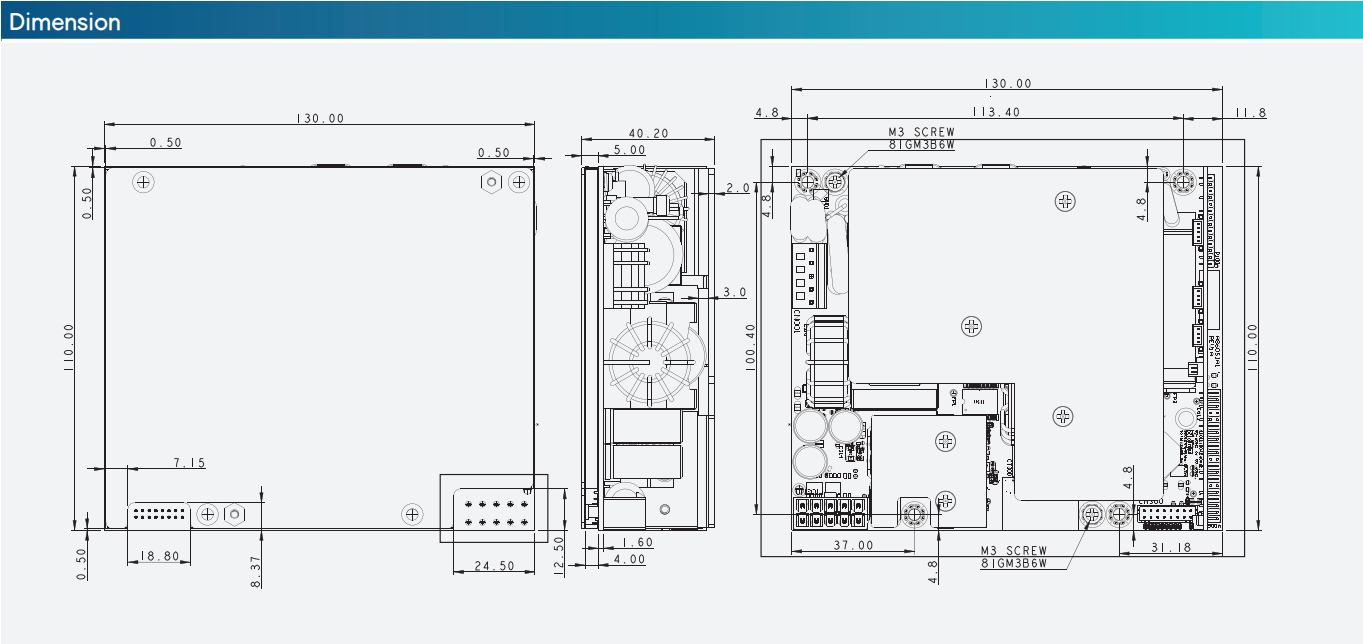
AC/DC 1200W Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ EMC Meets FCC / ICES-003, CISPR Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class A
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB
- ▶ RoHS Compliant
- ▶ 3 year warranty



Output Specifications		
Output Power		1200 Watt (max.)
Total Regulation		±3 %
Ripple & Noise		540 mVp-p
Temperature Coefficient		±5 °C
Short Circuit Protection		Continuous
General Specifications		
Hold-up Time		10mS
Leakage Current		1.6 mA
Hi-pot Isolation		UL62368-1 & UL 60950-1
Operating Temperature		0 °C to +50 °C
Storage Temperature		-40°C to +70°C
Humidity	Operating Humidity	5% to 90% relative humidity (non-condensing)
	Non-Operating Humidity	5% to 95% relative humidity (non-condensing)
Cooling		FAN Cooling

Input Specifications			
Input Voltage		90 - 264VAC	
Frequency		47 - 63 Hz	
Inrush Current		55A peak	
Physical Specifications			
Dimension (Tolerance ±5 mm)		130mm x 110mm x 40.2mm	
Weight		610g	
Models			
Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP1K21B	54.5V	15.8A for 90Vac~136Vac 22.02A for 180Vac~264Vac	540 mVp-p
Safety	UL, CB		



UP8601B-01XXG Series

AC/DC 860W Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ EMC Meets FCC / ICES-003, CISPR Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class A
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB
- ▶ RoHS Compliant
- ▶ 3 year warranty



Output Specifications

Output Power	860 Watt (max.)
Total Regulation	± 3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	± 5 °C
Short Circuit Protection	Continuous

General Specifications

Hold-up Time		12mS
Leakage Current		1.6 mA
Hi-pot Isolation		UL62368-1 & UL 60950-1
Operating Temperature		0 °C to +50 °C
Storage Temperature		-40°C to +70°C
Humidity	Operating Humidity	5% to 90% relative humidity (non-condensing)
	Non-Operating Humidity	5% to 95% relative humidity (non-condensing)
Cooling		FAN Cooling

Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	55A peak

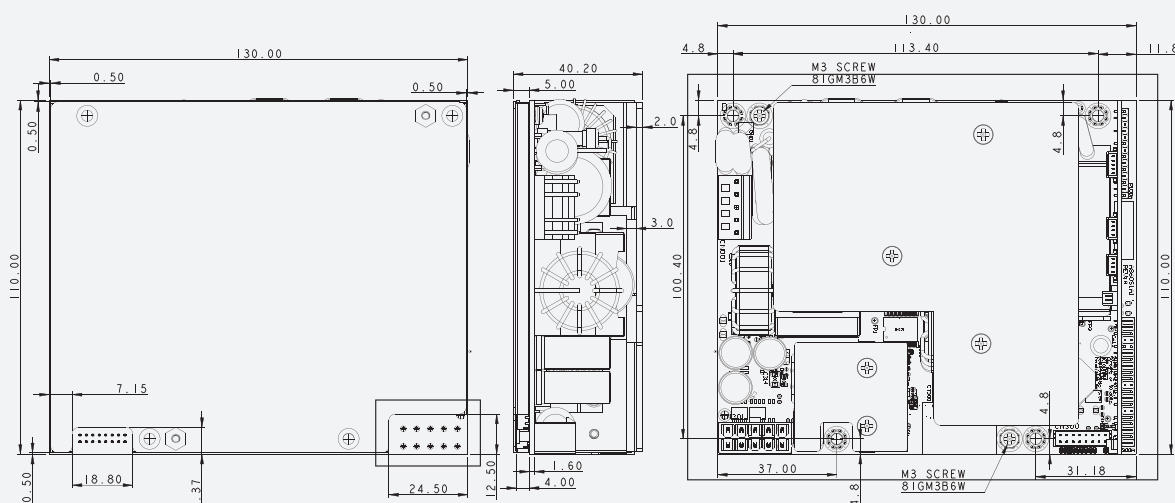
Physical Specifications

Dimension (Tolerance ± 5 mm)	130mm x 110mm x 40.2mm
Weight	610g

Models

Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP8601B	54.5V	15.8A	540 mVp-p
Safety	UL, CB		

Dimension



UP6601B-01XXG Series

AC/DC 660W Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ EMC Meets FCC / ICES-003, CISPR Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class A
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB
- ▶ RoHS Compliant
- ▶ 3 year warranty



CB US
E 144357



PMBUS 1.2

Output Specifications

Output Power	660 Watt (max.)
Total Regulation	±3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	±5 °C
Short Circuit Protection	Continuous

General Specifications

Hold-up Time		16mS
Leakage Current		1.6 mA
Hi-pot Isolation		UL62368-1 & UL 60950-1
Operating Temperature		0 °C to +50 °C
Storage Temperature		-40°C to +70°C
Humidity	Operating Humidity	5% to 90% relative humidity (non-condensing)
	Non-Operating Humidity	5% to 95% relative humidity (non-condensing)
Cooling		FAN Cooling

Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	55A peak

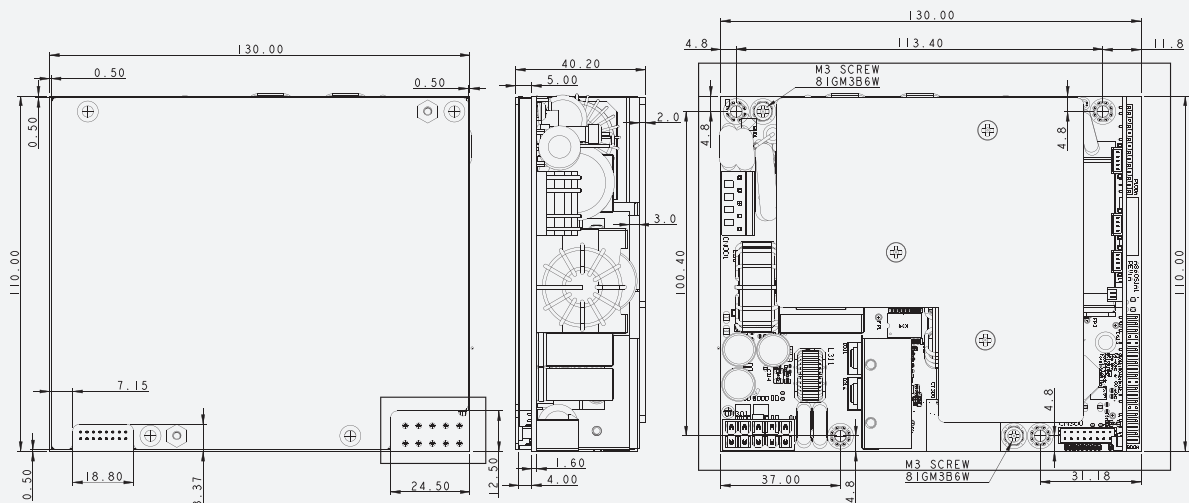
Physical Specifications

Dimension (Tolerance ±5 mm)	130mm x 110mm x 40.2mm
Weight	610g

Models

Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP6601B	54.5V	12.1A	540 mVp-p
Safety	UL, CB		

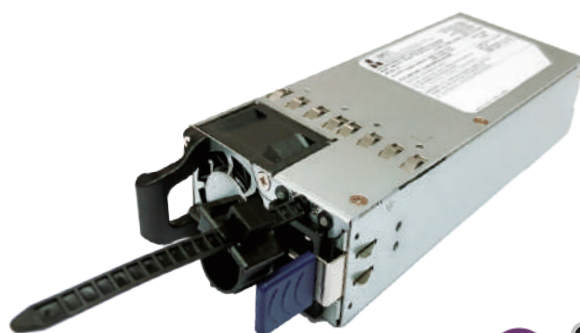
Dimension



UP2K01R Series

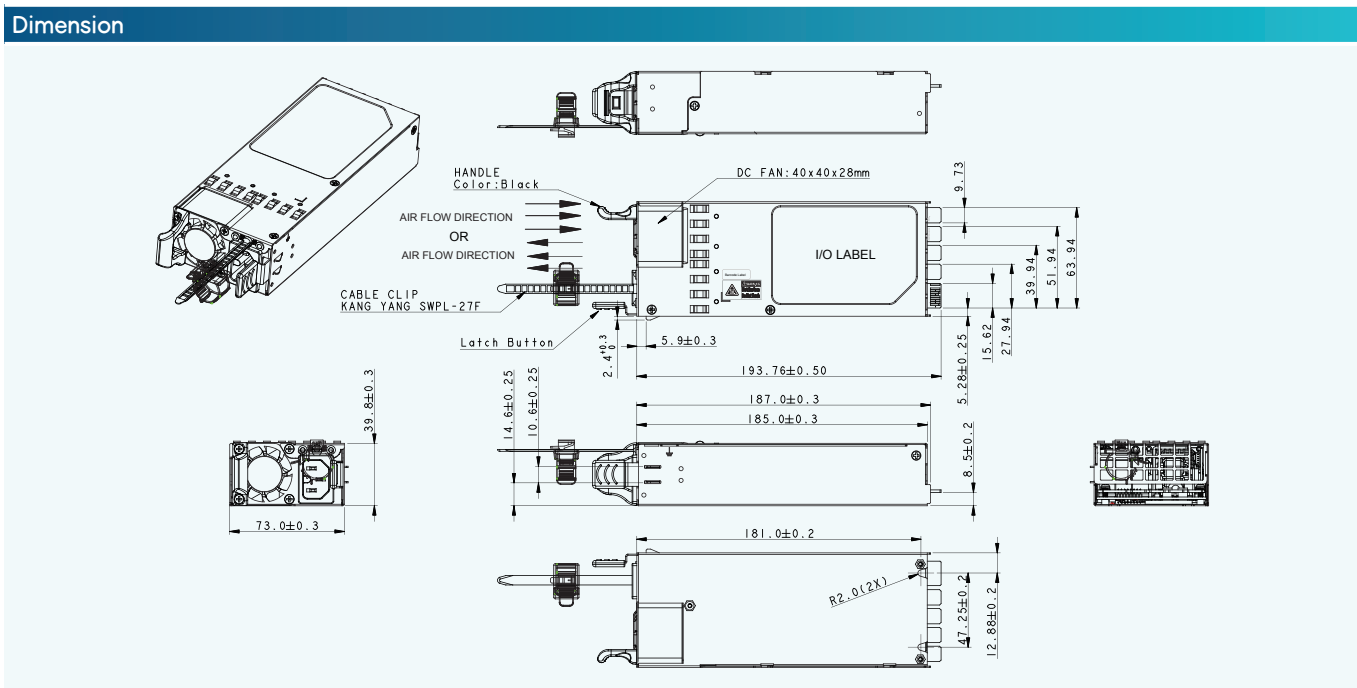
AC/DC 2000W Hot-swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card- Edge connector output
- ▶ OVP,OCP,OTP,SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications	
Output Power	2000 Watt (max.)
Total Regulation	±3%
Ripple & Noise	540mVp-p
Temperature Coefficient	±5 °C
General Specifications	
Hold-up Time	8mS (80%)
Leakage Current	1.6 mA
Hi-pot Isolation	UL62368-1 & UL 60950-1
Operating Temperature	0 °C to +50 °C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
Inrush Current	55A peak		
HVDC	190 ~ 310 V		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39.8mm(H) x 73mm(W) x 185mm(L)		
Weight	880g		
Models			
Model Number	Dual Output Voltage(V.DC)	Output Current (A max.)	Ripple & Noise
UP2K01R	54V	36.69	540mVp-p
Safety	CE, UL, CUL, TUV, CB, FCC		



UP1K21R Series



AC/DC 1200W Hot - swappable Redundant Power

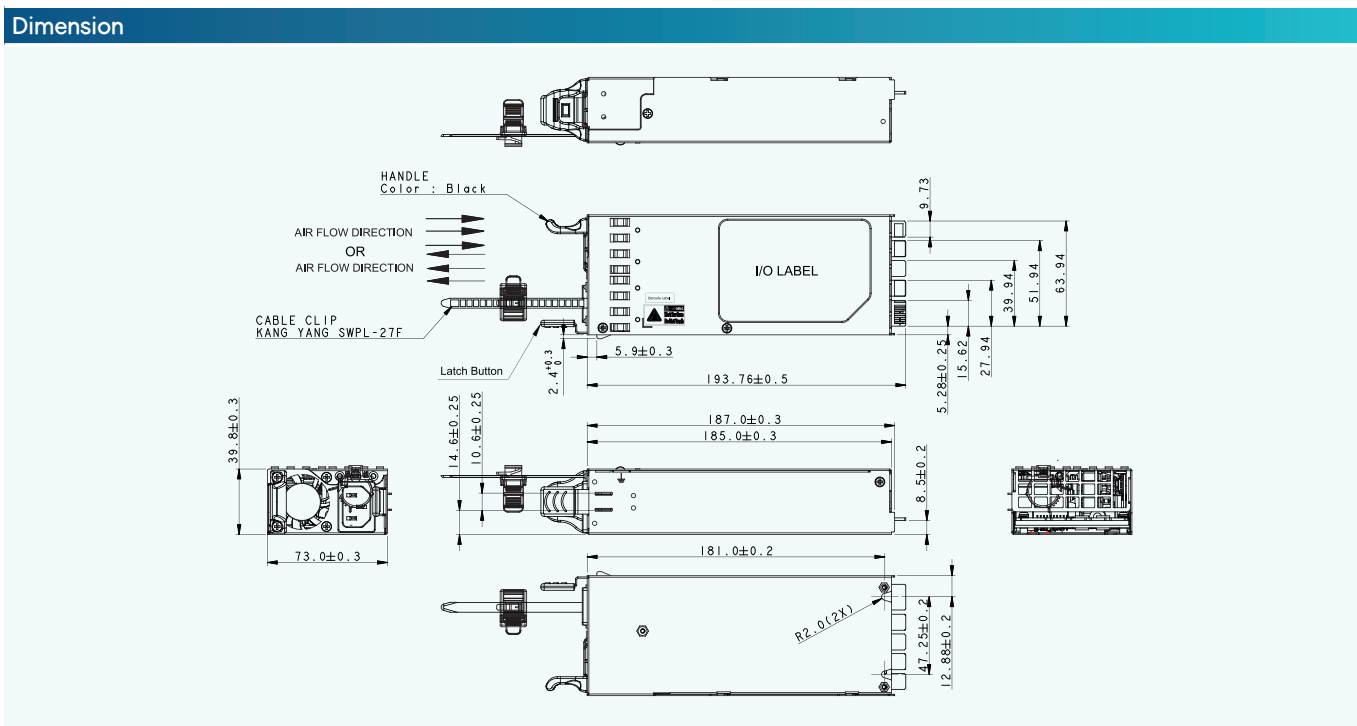


- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1& 60950-1), CB, CE, TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications	
Output Power	1200 Watt (max.)
Total Regulation	±3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	±5 °C
General Specifications	
Hold-up Time	16.7 mS (80%)
Leakage Current	1.6 mA
Hi-pot Isolation	UL62368-1 & UL 60950-1
Operating Temperature	0°C to + 50°C
Storage Temperature	-40 °C to +70 °C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264VAC		
Frequency	47-63 Hz		
Inrush Current	55A peak		
HVDC	190 ~ 310V		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39.8mm(H) x 73mm(W) x 185mm(L)		
Weight	850g		
Models			
Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP1K21R	54V	22A	540 mVp-p
Safety	CB, CE, UL/CUL, TUV, FCC, CCC, BSMI, KC, EAC, RCM		



UP1K22R Series

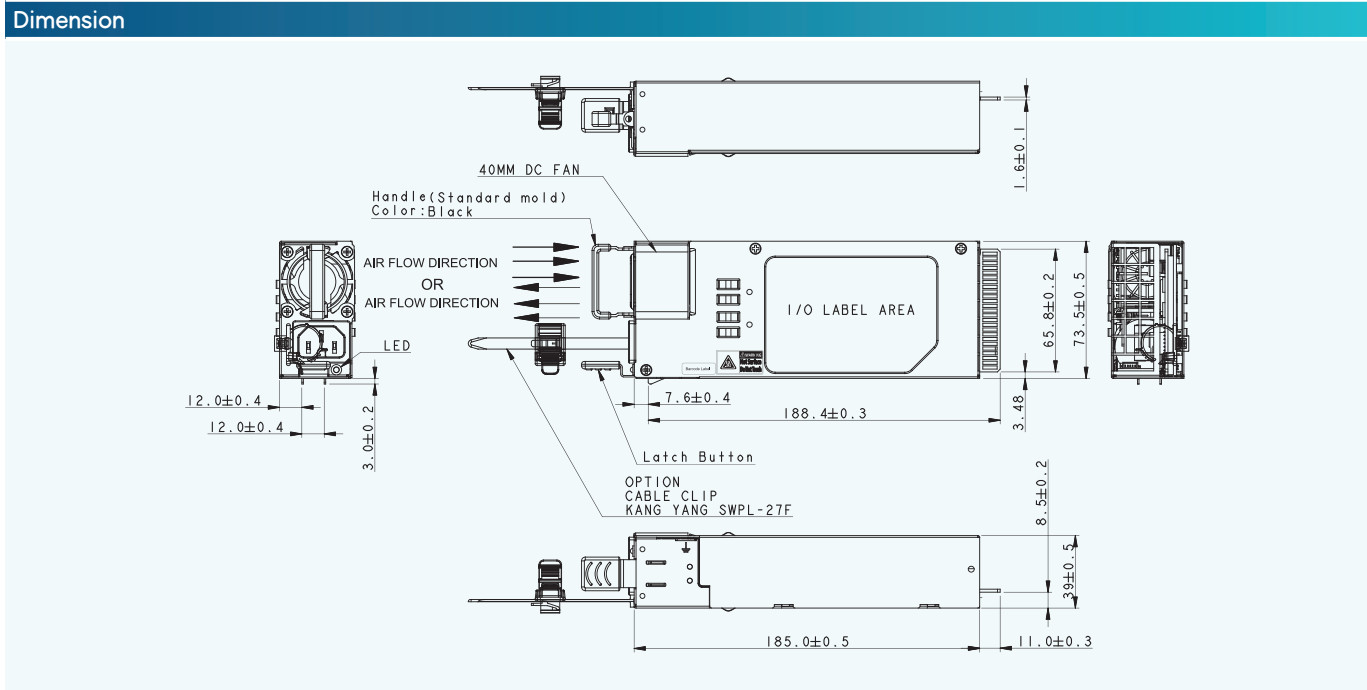
AC/DC 1200W Hot-swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card- Edge connector output
- ▶ OVP, UVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications	
Output Power	1200 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	120mVp-p
Temperature Coefficient	±5 °C
General Specifications	
Hold-up Time	10mS (100% loading)
Leakage Current	1.6 mA
Hi-pot Isolation	Meet UL62368-1 & UL 60950-1
Operating Temperature	0 °C to +50 °C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
HVDC	55A peak		
Inrush Current	190 ~ 310 V		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39mm(H) x 73.5mm(W) x185(L) mm		
Weight	880g		
Models			
Model Number	Dual Output Voltage(V.DC)	Output Current (A max.)	Ripple & Noise
UP1K22R	+12V	97.6A	120 mVp-p
	+12VSB	5	120mVp-p
Safety	CE, UL, CUL, TUV, CB, FCC		



UP9201R Series

AC/DC 920W Hot - swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB, CE, TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications

Output Power	920 Watt (max.)
Total Regulation	±3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	±3 °C

General Specifications

Hold-up Time	10mS
Leakage Current	1.6 mA
Hi-pot Isolation	UL62368-1 & UL 60950-1
Operating Temperature	0°C to + 50°C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
HVDC	190 ~ 310V
Inrush Current	55A peak

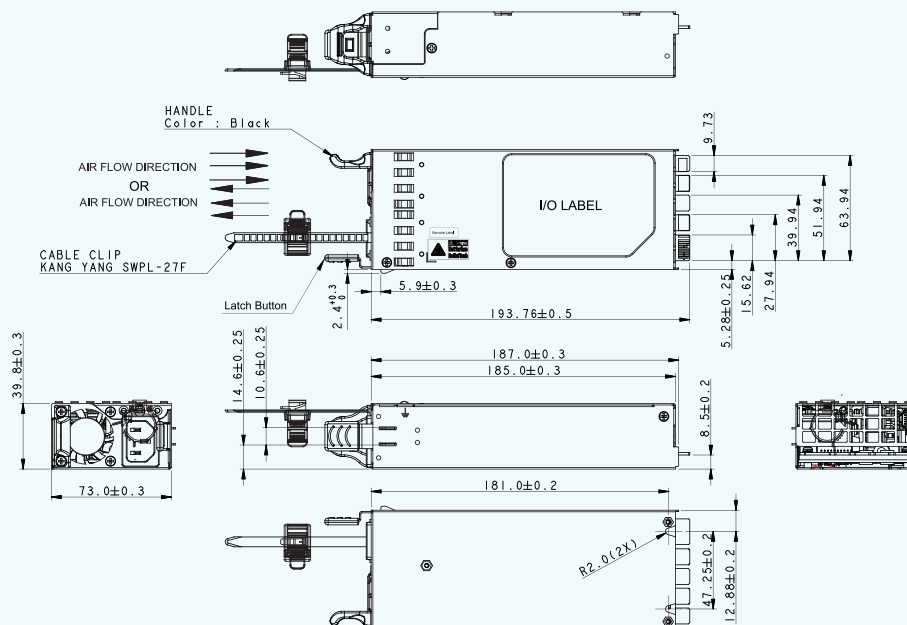
Physical Specifications

Dimension (Tolerance ±5 mm)	39.8mm(H) x 73mm(W) x 185mm(L)
Weight	850g

Models

Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP9201R	54V	16.88A	540 mVp-p
Safety	CB, CE, UL/CUL, TUV, FCC, CCC, BSMI, KC, EAC, RCM		

Dimension



UP8802R Series

AC/DC 880W Hot-swappable Redundant Power

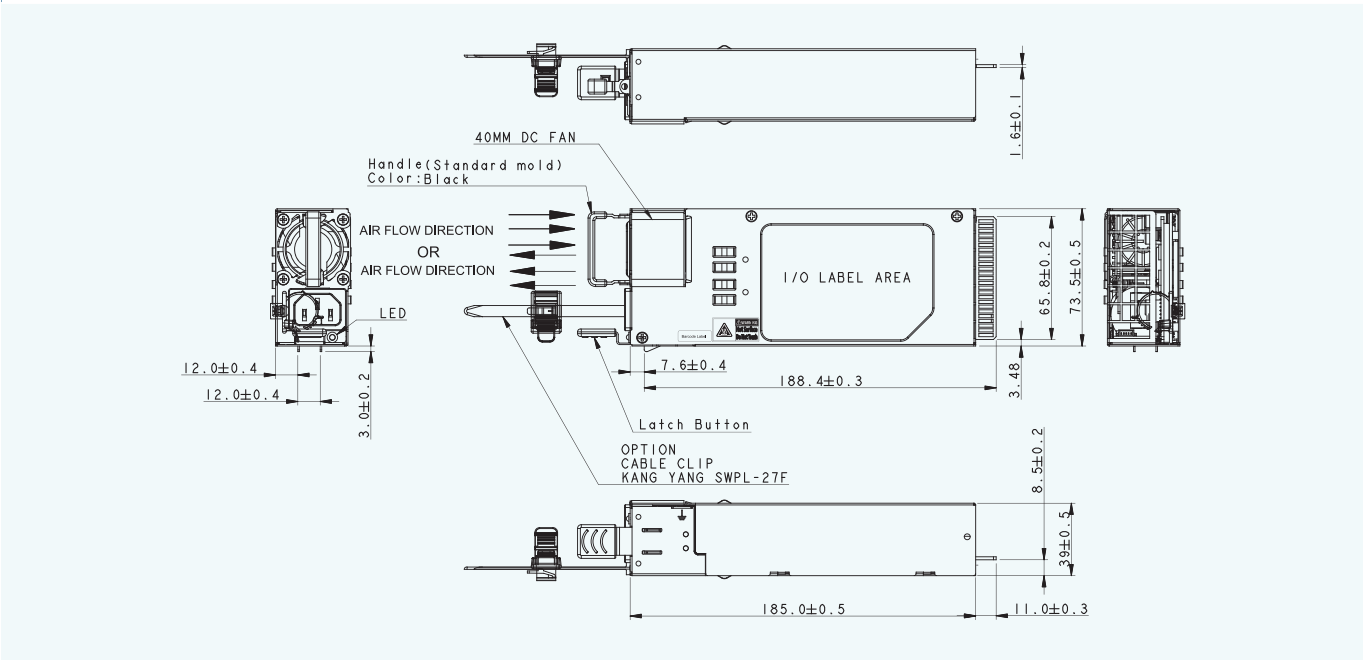
- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card- Edge connector output
- ▶ OVP, UVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications	
Output Power	880 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	120mVp-p
Temperature Coefficient	±5 °C
General Specifications	
Hold-up Time	10mS (100% loading)
Leakage Current	1.6 mA
Hi-pot Isolation	Meet UL62368-1 & UL 60950-1
Operating Temperature	0 °C to +50 °C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
HVDC	55A peak		
Inrush Current	190 ~ 310 V		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39mm(H) x 73.5mm(W) x185(L) mm		
Weight	880g		
Models			
Model Number	Dual Output Voltage(V.DC)	Output Current (A max.)	Ripple & Noise
UP8802R	+12V	71.6	120 mVp-p
	+12VSB	5	120mVp-p
Safety	CE, UL, CUL, TUV, CB, FCC		

Dimension



UP6001R Series



AC / DC 600W Hot - swappable Redundant Power



- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet : UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications

Output Power	600 Watt (max.)
Total Regulation	±3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	±3 °C

General Specifications

Hold-up Time	16 mS
Leakage Current	1.6 mA
Hi-pot Isolation	UL62368-1 & UL 60950-1
Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
HVDC	190~310V
Inrush Current	55A peak

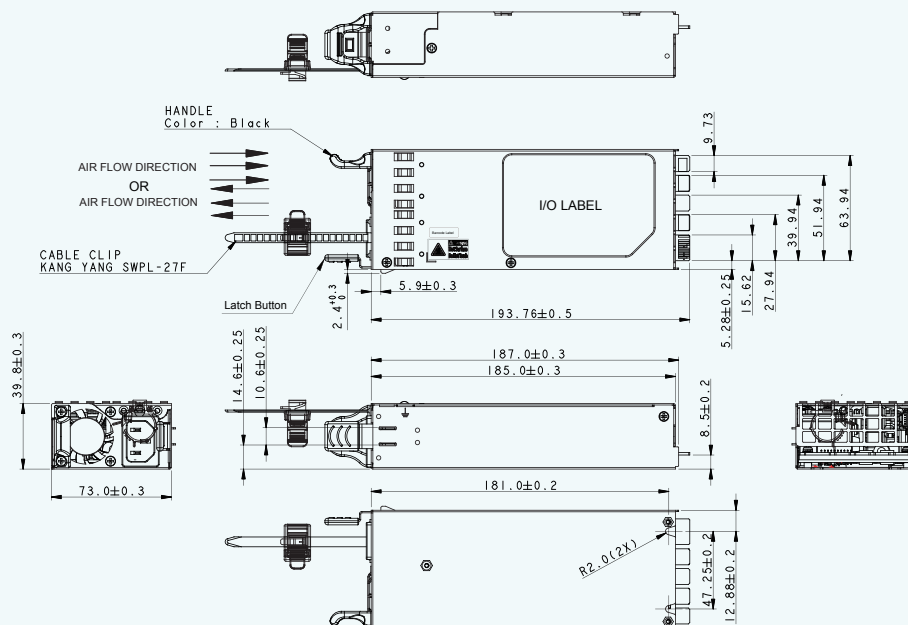
Physical Specifications

Dimension (Tolerance ±5 mm)	39.8mm(H) x 73mm(W) x 185mm(L)
Weight	850g

Models

Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP6001R	54V	11A	540 mVp-p
Safety	CB, CE, UL/CUL, TUV, FCC, CCC, BSMI, KC, EAC, RCM		

Dimension



UP5502R Series

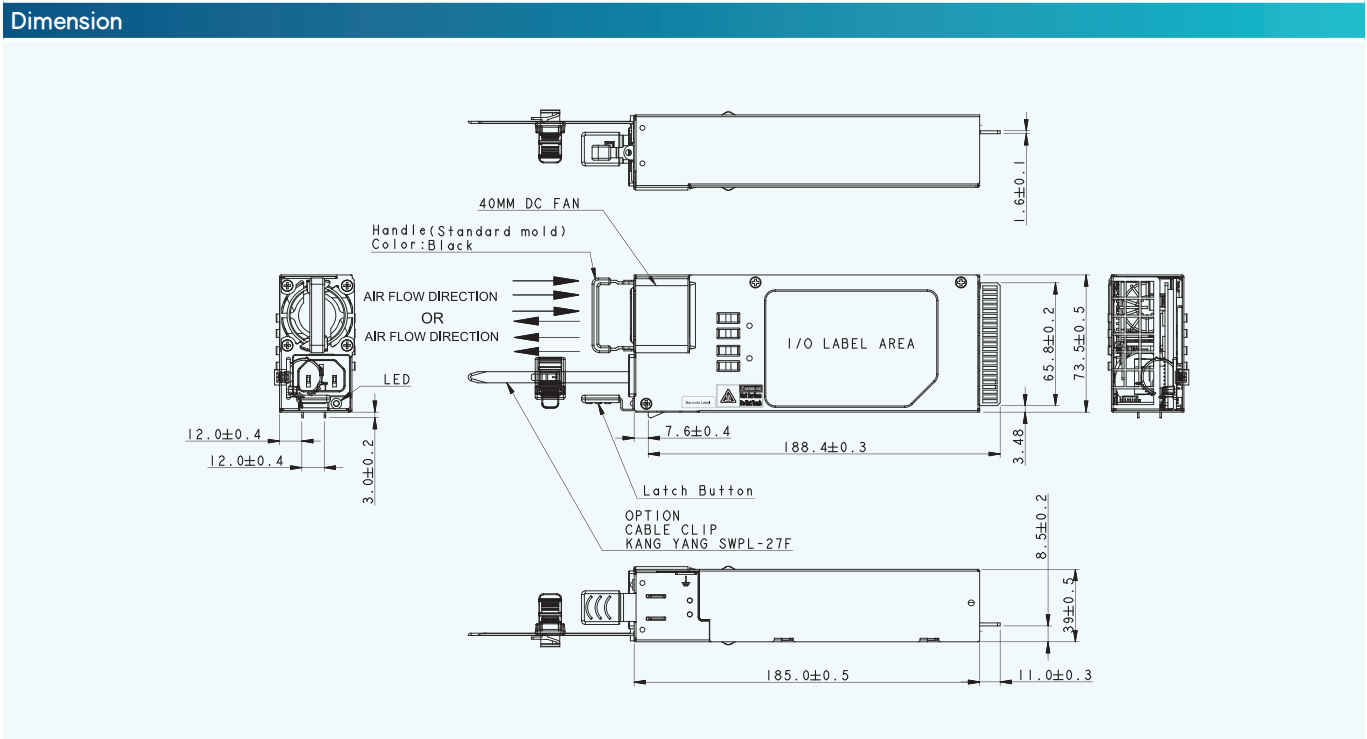
AC / DC 550W Hot - swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card- Edge connector output
- ▶ OVP, UVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications	
Output Power	550 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	120 mVp-p
Temperature Coefficient	±5 °C
General Specifications	
Hold-up Time	20 mS (100% loading)
Leakage Current	1.6 mA
Hi-pot Isolation	Meet UL62368-1 & UL 60950-1
Operating Temperature	0 °C to +50 °C
Storage Temperature	-40 °C to +70 °C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
Inrush Current	55 A peak		
HVDC	190 ~ 310 V		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39mm(H) x 73.5mm(W) x185mm(L)		
Weight	880g		
Models			
Model Number	Dual Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP5502R	+12V	44.7	120 mVp-p
	+12VSB	5	120 mVp-p
Safety	CE, UL, CUL, TUV, CB, FCC		



UP3001R Series

AC/DC 300W Hot-swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP, OCP, OTP, SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet : UL(62368-1 & 60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Platinum
- ▶ 3 year warranty



Output Specifications

Output Power	300 Watt (max.)
Total Regulation	±3 %
Ripple & Noise	540 mVp-p
Temperature Coefficient	±5 °C

General Specifications

Hold-up Time		16mS
Leakage Current		1.6 mA
Hi-pot Isolation		UL62368-1 & UL 60950-1
Operating Temperature		0 °C to +50 °C
Storage Temperature		-40°C to +70°C
Humidity	Operating Humidity	5% to 90% relative humidity (non-condensing)
	Non-Operating Humidity	5% to 95% relative humidity (non-condensing)
Cooling		FAN Cooling

Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
HVDC	190 - 310V
Inrush Current	55A peak

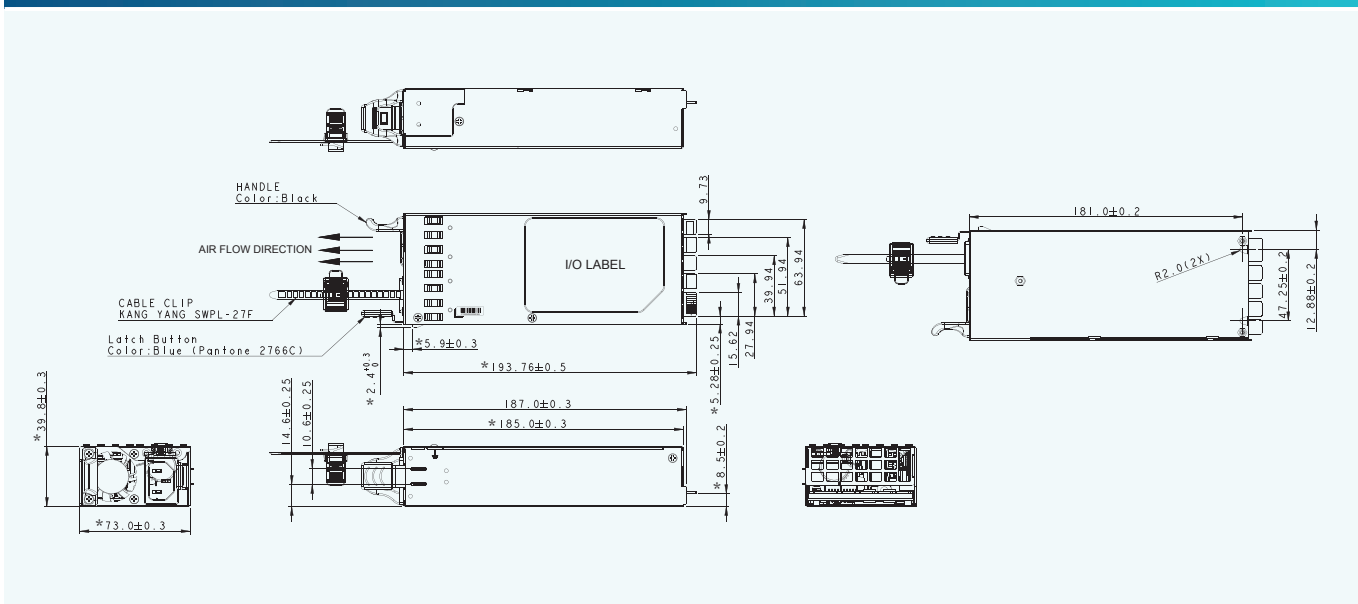
Physical Specifications

Dimension (Tolerance ±5 mm)	39.8mm(H) x 73mm(W) x 185mm(L)
Weight	850g

Models

Model Number	Single Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP3001R	54.5V	5.51A	540 mVp-p
Safety	CB, CE, UL/CUL, TUV, FCC, CCC, BSMI, KC, EAC, RCM		

Dimension



UP2502R Series



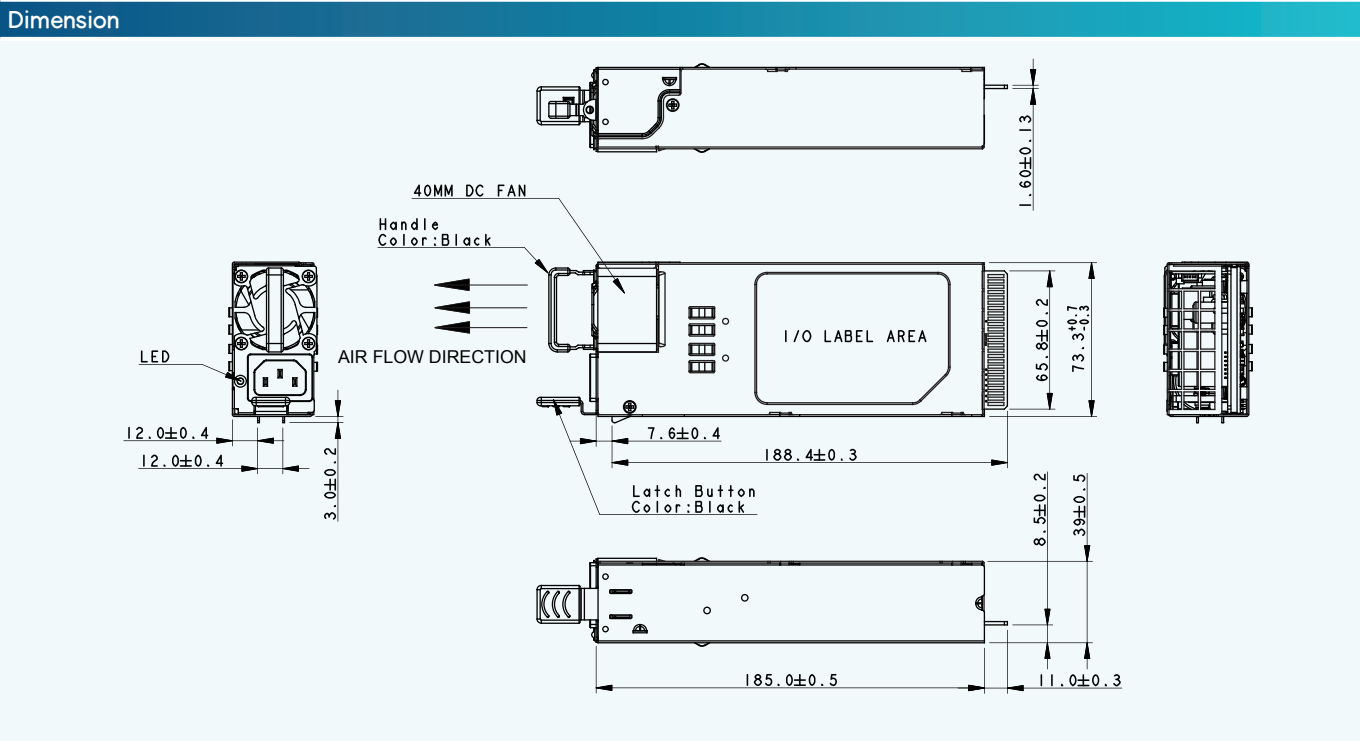
AC / DC 250W Hot - swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP,UVP,OCP,OTP,SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class B
- ▶ Active Power Factor Correction for EN61000-3-2 Class D
- ▶ Safety standard to meet: UL (62368-1&60950-1), CB, CE,TUV, FCC
- ▶ RoHS Compliant
- ▶ Meet 80Plus - Silver
- ▶ 3 year warranty



Output Specifications	
Output Power	250 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	120 mVp-p
Temperature Coefficient	±3 °C
General Specifications	
Hold-up Time	20 mS (100% load)
Leakage Current	1.6 mA
Hi-pot Isolation	Meet IEC 60950
Operating Temperature	0 °C to +50 °C
Storage Temperature	-40°C to +70°C
Operating Humidity	85 % (non-condensing)
Storage Humidity	95 % (non-condensing)
Cooling	FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
Inrush Current	55A peak		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39mm(H) x 73.3mm(W) x185mm(L)		
Weight	880g		
Models			
Model Number	Dual Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP2502R	+12V	20.8	120 mVp-p
	+12VSB	1	120 mVp-p
Safety	CE, UL, CUL, TUV, CB, AU, KC, EAC, FCC, C-Tick, VCCI, CCC		



UP1502R Series

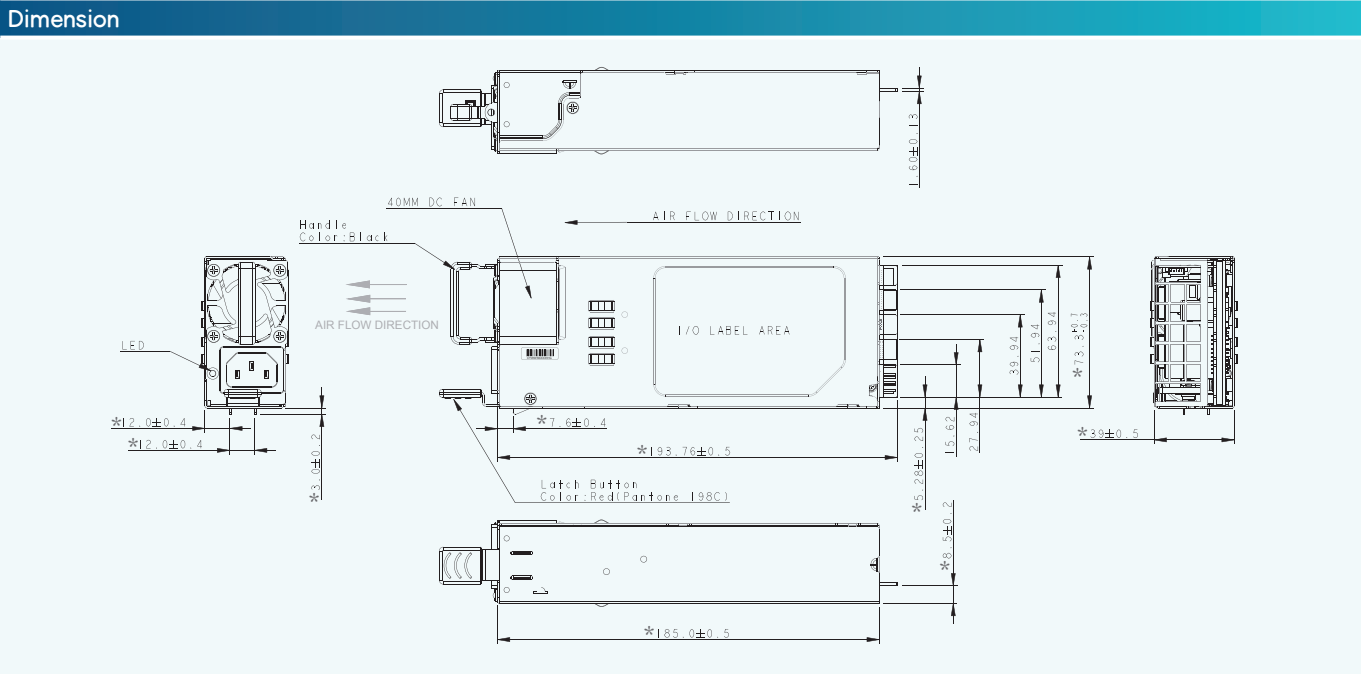
AC/DC 150W Hot-swappable Redundant Power

- ▶ Universal Input 90 to 264 VAC
- ▶ PMBus Support
- ▶ PCB Card - Edge connector output
- ▶ OVP,UVP,OCP,OTP,SCP and Fan Fault Protection
- ▶ LED indicator for Power System Fault Signal.
- ▶ EMC Meets FCC / ICES-003, CISPR 22 , EN55022 Class A
- ▶ Active Power Factor Correction for EN61000-3-2 Class A
- ▶ Safety standard to meet: UL (62368-1 & 60950-1), CB, CE
- ▶ RoHS Compliant
- ▶ Meet 80Plus -Bronze
- ▶ 3 year warranty



Output Specifications		
Output Power		150 Watt (max.)
Total Regulation		±3 %
Ripple & Noise		120 mVp-p
Temperature Coefficient		±5 °C
General Specifications		
Hold-up Time		16mS
Leakage Current		1.6 mA
Hi-pot Isolation		UL62368-1 & UL 60950-1
Operating Temperature		0 °C to +50 °C
Storage Temperature		-40°C to +70°C
Humidity	Operating Humidity	5% to 90% relative humidity (non-condensing)
	Non-Operating Humidity	5% to 95% relative humidity (non-condensing)
Cooling		FAN Cooling

Input Specifications			
Input Voltage	90 - 264 VAC		
Frequency	47 - 63 Hz		
HVDC	190 - 310V		
Inrush Current	55A peak		
Physical Specifications			
Dimension (Tolerance ±5 mm)	39mm(H) x 73.3mm(W) x185mm(L)		
Weight	788g		
Models			
Model Number	Dual Output Voltage (V.DC)	Output Current (A max.)	Ripple & Noise
UP1502R	12V	12.5A	120 mVp-p
	12VSB	1	120 mVp-p
Safety	CE, UL, CUL, TUV, CB, FCC		



UP0501G-XXG Series

40 - 50 Watt AC / DC Enclosed Chassis

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ Passed the power grid of China level 4 - IEC 61000-4-4 (EFT) and IEF 61000-4-5 (Surge).
- ▶ Passed IEC 60068-2-52 Edition 2.0:1996, Severity 2 SST.
- ▶ MTBF 1000Khrs
- ▶ RoHS Compliant
- ▶ All Safety Approvals are Pending
- ▶ Surge (IEC61000-4-5) Up to 6KV



CB cULus CE



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150A max. (Cold Start)

Output Specifications

Output Power	50 Watt (max.)
Total Regulation	±5%
Ripple & Noise	5V 80 mV P-P max.
	12-15V 110 mV P-P max.
	24V 140 mV P-P max.
	36-54V 190 mV P-P max.
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	8mS (typ.)
Leakage Current	3mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	-40°C to +70 °C (with derating)
Storage Temperature	-40°C to +85°C
Humidity	0 to 95 % RH
Cooling	Free- Air Convection

Physical Specifications

Dimension (Tolerance ± 1mm)	99.0 x 82.0 x 35.0 mm
Weight	240g

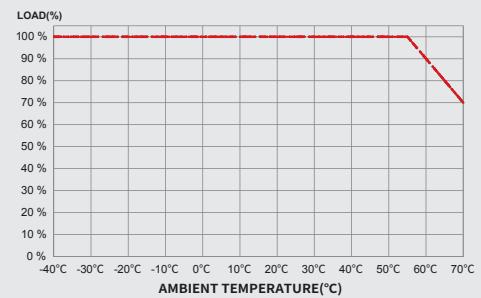
EMC Specifications

	UP0501G-XXS1 2KV
Surge (UP0501G-XXSX)	UP0501G-XXS2 4KV
	UP0501G-XXS3 6KV

PIN CONNECTIONS

PIN CONNECTIONS			
Pin	Single	Pin	Single
1	AC / L	4	DC OUTPUT -V
2	AC / N	5	DC OUTPUT +V
3	FG		

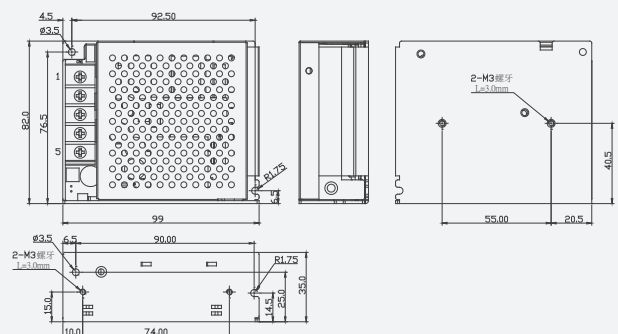
Derating



Models

Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0501G-05S1	5V	8A	86.3 - 87.7 %	UL, CB, CE, BSMI
UP0501G-12S1	12V	4.2A	89.1 - 91.3 %	UL, CB, CE, BSMI
UP0501G-15S1	15V	3.34A	88.6 - 90.5 %	UL, CB, CE, BSMI
UP0501G-24S1	24V	2.09A	89.7 - 91.3 %	UL, CB, CE, BSMI
UP0501G-36S1	36V	1.39A	89.7 - 92.0 %	UL, CB, CE, BSMI
UP0501G-48S1	48V	1.04A	90.2 - 92.2 %	UL, CB, CE, BSMI
UP0501G-54S1	54V	0.93A	90.3 - 92.1 %	UL, CB, CE, BSMI

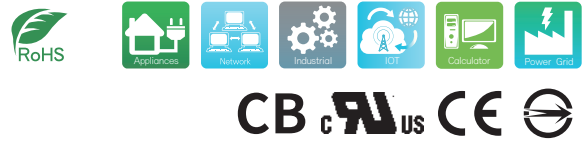
Dimension



UP0751G-XXG Series

60 - 75 Watt AC / DC Enclosed Chassis

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 1000Khrs
- ▶ RoHS Compliant
- ▶ All Safety Approvals are Pending
- ▶ Surge (IEC61000-4-5) Up to 6KV



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max.

Output Specifications	
Output Power	75 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	5V 70 mV P-P max.
	12-15V 110 mV P-P max.
	24V 140 mV P-P max.
	36-54V 190 mV P-P max.
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

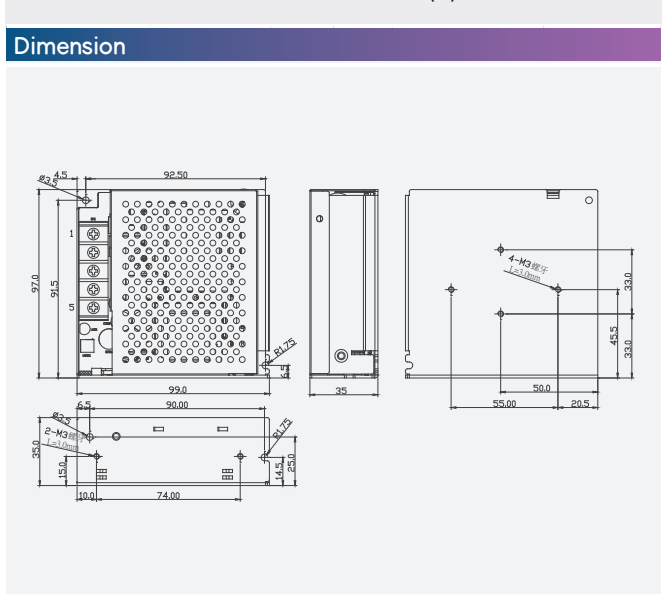
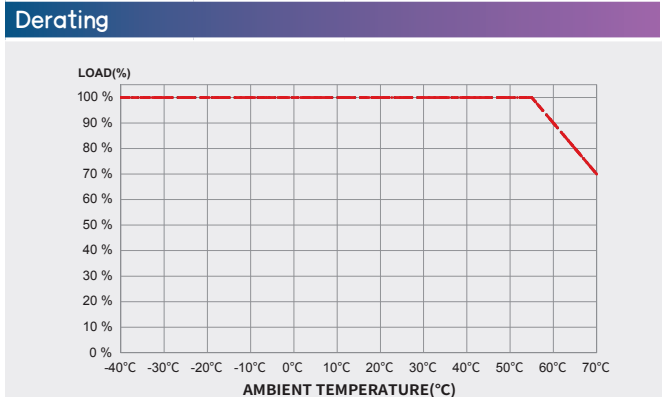
General Specifications	
Hold-up Time	8 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	-40 °C to +70 °C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free- Air Convection

Physical Specifications	
Dimension (Tolerance ±5 mm)	99.0 x 97.0 x 35.0 mm
Weight	275g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff.(%)	Safety
UP0751G-05S1	5 V	12 A	83.5~86.8 %	UL, CB, CE, BSMI
UP0751G-12S1	12 V	6.25 A	89.6~92.1 %	UL, CB, CE, BSMI
UP0751G-15S1	15 V	5.0 A	90.9~93.1 %	UL, CB, CE, BSMI
UP0751G-24S1	24 V	3.2 A	89.3~91.9 %	UL, CB, CE, BSMI
UP0751G-36S1	36 V	2.1 A	90.0~92.6 %	UL, CB, CE, BSMI
UP0751G-48S1	48 V	1.6 A	89.4~91.6 %	UL, CB, CE, BSMI
UP0751G-54S1	54 V	1.4 A	90.0~92.5 %	UL, CB, CE, BSMI

EMC Specifications	
Surge (UP0751G-XXSX)	UP0751G-XXS1 2KV
	UP0751G-XXS2 4KV
	UP0751G-XXS3 6KV

PIN CONNECTIONS			
Pin	Single	Pin	Single
1	AC / L	4	DC OUTPUT - V
2	AC / N	5	DC OUTPUT + V
3	FG		



UP0131Z (UP0181Z)- () ()PA(PE/PK/PT) Series

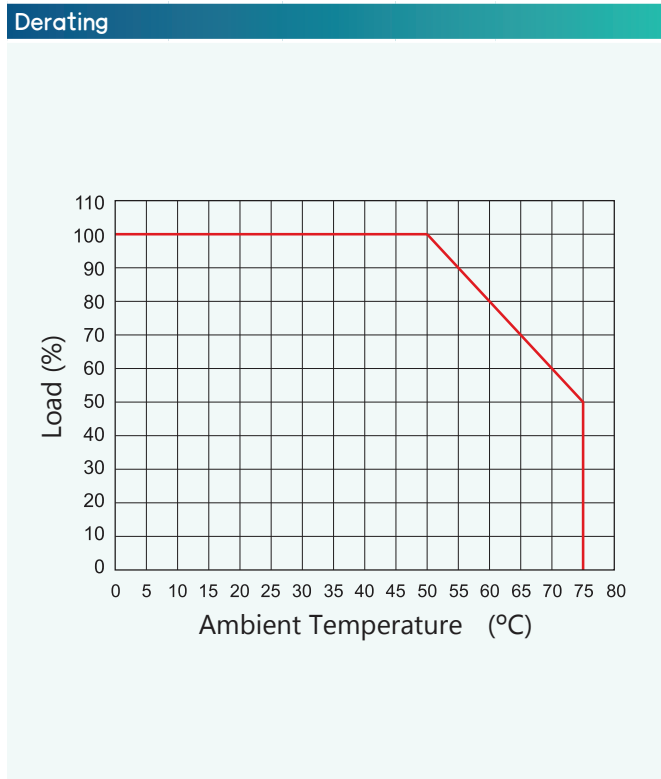


12.5 - 18 Watt AC/DC Wall Mount Adapter

- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	200g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0131Z-05PA(PE/PK/PT)	05	0	2.5	12.5	80.22%	80.59%	100	±8 %
UP0181Z-05PA(PE/PK/PT)	05	0	3.0	15.0	81.39%	81.84%	100	±8 %
UP0181Z-12PA(PE/PK/PT)	12	0	1.5	18.0	85.00%	85.45%	200	±5 %
UP0181Z-24PA(PE/PK/PT)	24	0	0.75	18.0	85.00%	85.45%	300	±5 %
UP0181Z-54PA(PE/PK/PT)	54	0	0.333	18.0	85.00%	85.45%	540	±5 %

UP0131Z (UP0181Z)- () ()MA(ME/MK/MT) Series

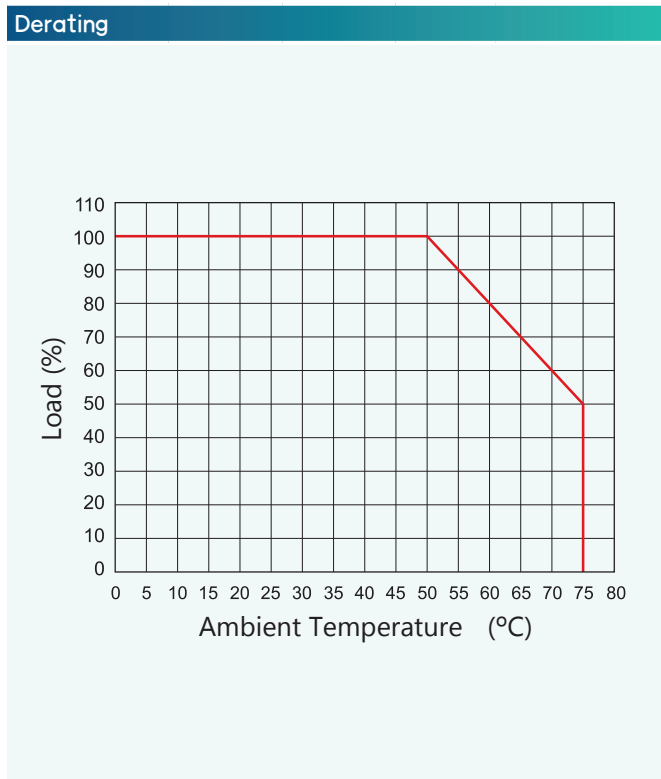


12.5 - 18 Watt Medical Series AC/DC Wall Mount Adapter

- ▶ Safety meets to IEC 60601-1 3.1rd ed. & IEC 62368-1 & IEC 60950-1
- ▶ 2 × MOPP isolation
- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ FCC 47 CRF PART 18 , CISPR 11 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	200g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0131Z-05MA(ME/MK/MT)	05	0	2.5	12.5	80.22%	80.59%	100	±8 %
UP0181Z-05MA(ME/MK/MT)	05	0	3.0	15.0	81.39%	81.84%	100	±8 %
UP0181Z-12MA(ME/MK/MT)	12	0	1.5	18.0	85.00%	85.45%	200	±5 %
UP0181Z-24MA(ME/MK/MT)	24	0	0.75	18.0	85.00%	85.45%	300	±5 %
UP0181Z-54MA(ME/MK/MT)	54	0	0.333	18.0	85.00%	85.45%	540	±5 %

UP0241Z- () ()PA(PE/PK/PT) Series

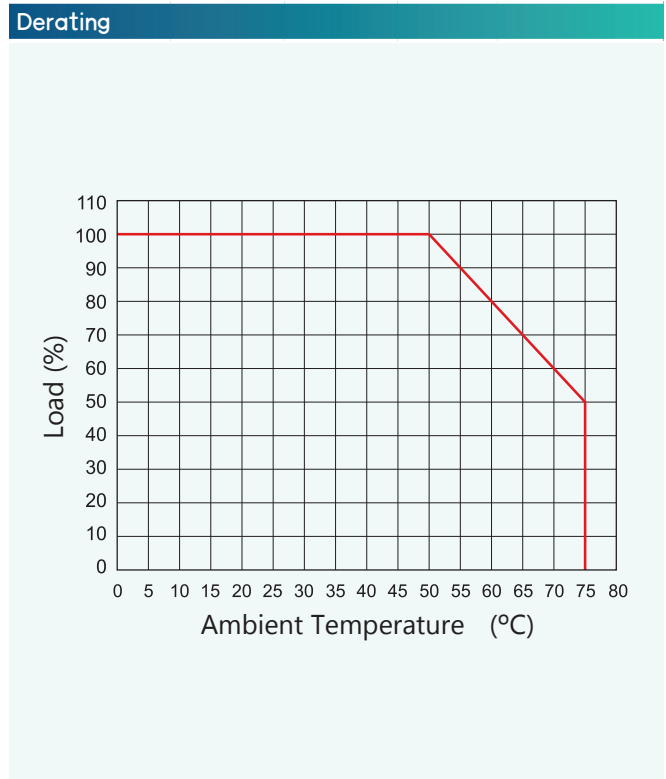


24 Watt AC/DC Wall Mount Adapter

- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	200g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0241Z-12PA(PE/PK/PT)	12	0	2.0	24.0	86.20%	86.80%	200	±5 %
UP0241Z-24PA(PE/PK/PT)	24	0	1.0	24.0	86.20%	86.80%	300	±5 %
UP0241Z-54PA(PE/PK/PT)	54	0	0.444	24.0	86.20%	86.80%	540	±5 %

UP0241Z- () () MA (ME/MK/MT) Series

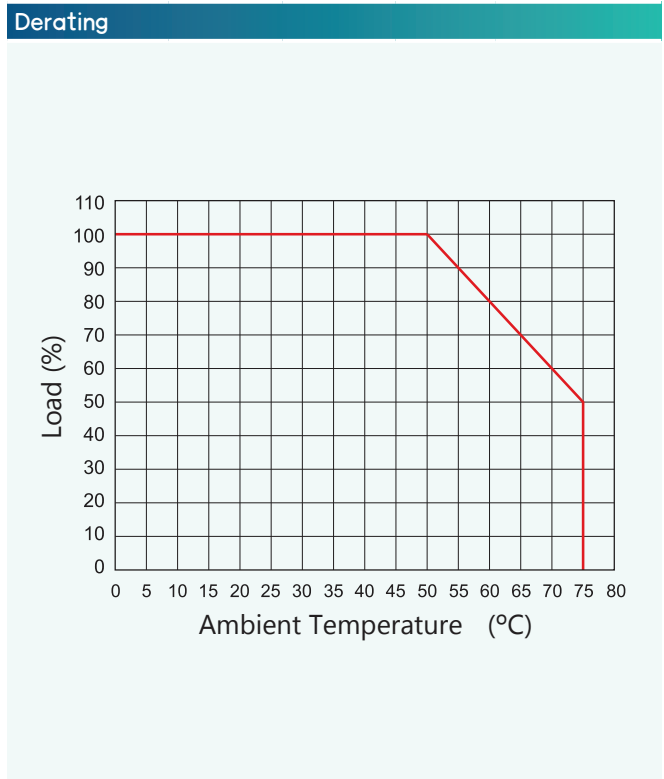


24 Watt Medical Series AC/DC Wall Mount Adapter

- ▶ Safety meets to IEC 60601-1 3.1rd ed. & IEC 62368-1 & IEC 60950-1
- ▶ 2 × MOPP isolation
- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ FCC 47 CRF PART 18 , CISPR 11 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	200g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0241Z-12MA(ME/MK/MT)	12	0	2.0	24.0	86.20%	86.80%	200	±5 %
UP0241Z-24MA(ME/MK/MT)	24	0	1.0	24.0	86.20%	86.80%	300	±5 %
UP0241Z-54MA(ME/MK/MT)	54	0	0.444	24.0	86.20%	86.80%	540	±5 %

UP0301Z- () ()PA(PE/PK/PT) Series

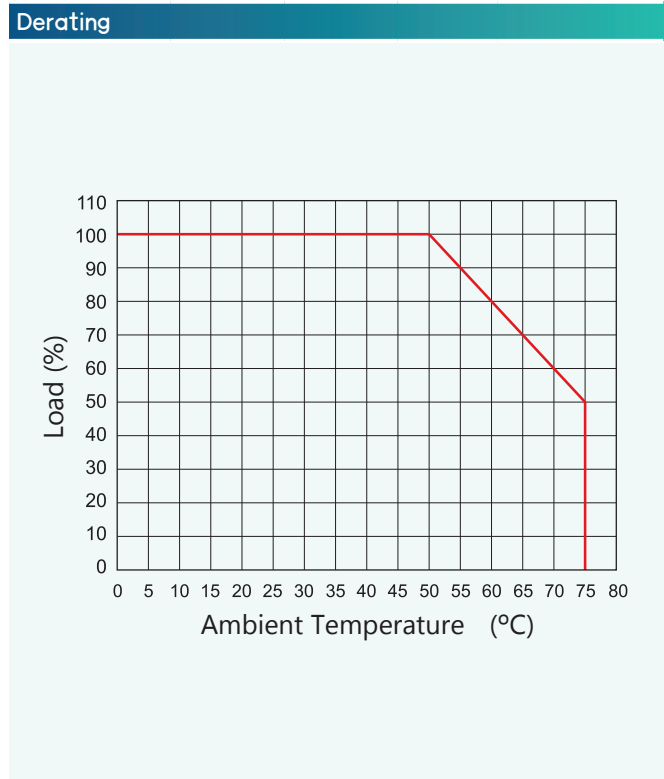


17.5 - 30 Watt AC/DC Wall Mount Adapter

- Interchangeable AC plug with multiple country options
- Power direction of EU and US type is no longer fixed
- Universal Input 90 to 264 VAC
- EMI Meets FCC/CISPR 22 Class B
- RoHS Compliant
- No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- Meet DoE efficiency Level VI
- Meet ErP (EU) 2019/1782
- Meet CoC V5 Tier2
- Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	238g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0301Z-05PA(PE/PK/PT)	5	0	3.5	17.5	82.32%	82.85%	120	±8 %
UP0301Z-12PA(PE/PK/PT)	12	0	2.5	30	86.95%	87.70%	200	±5 %
UP0301Z-24PA(PE/PK/PT)	24	0	1.25	30	86.95%	87.70%	300	±5 %
UP0301Z-54PA(PE/PK/PT)	54	0	0.555	30	86.95%	87.70%	540	±4 %

UP0301Z- () () MA(ME/MK/MT) Series

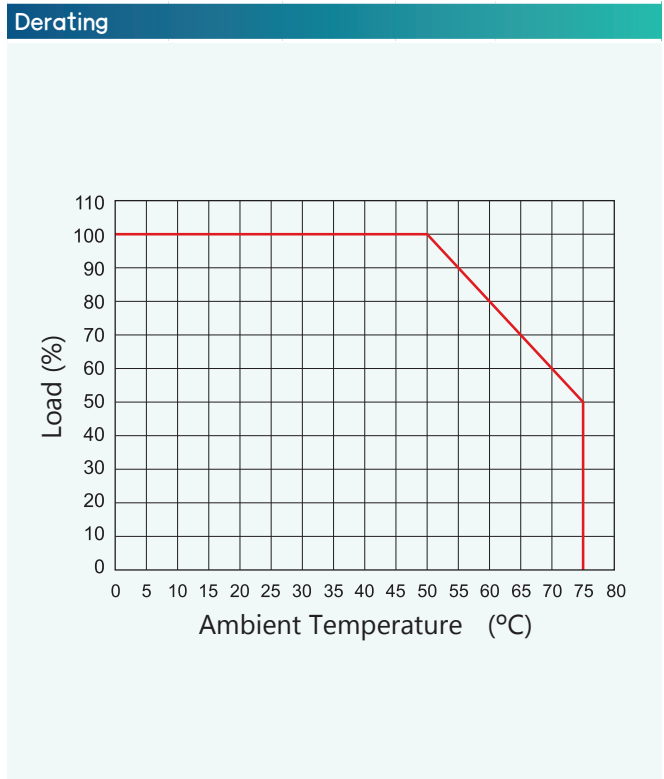


17.5 - 30 Watt Medical Series AC/DC Wall Mount Adapter

- ▶ Safety meets to IEC 60601-1 3.1rd ed. & IEC 62368-1 & IEC 60950-1
- ▶ 2 × MOPP isolation
- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ FCC 47 CRF PART 18 , CISPR 11 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	238g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0301Z-05MA(ME/MK/MT)	5	0	3.5	17.5	82.32%	82.85%	120	±8 %
UP0301Z-12MA(ME/MK/MT)	12	0	2.5	30	86.95%	87.70%	200	±5 %
UP0301Z-24MA(ME/MK/MT)	24	0	1.25	30	86.95%	87.70%	300	±5 %
UP0301Z-54MA(ME/MK/MT)	54	0	0.555	30	86.95%	87.70%	540	±4 %

UP0361Z- () ()PA(PE/PK/PT) Series

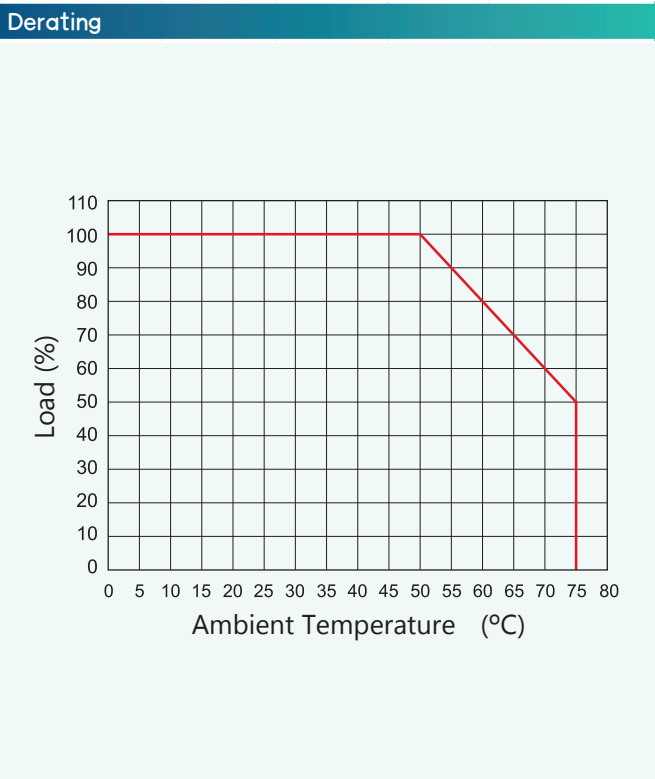


36 Watt AC/DC Wall Mount Adapter

- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	238g



Output Specifications								
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0361Z-12PA(PE/PK/PT)	12	0	3	36	87.40%	88.30%	200	±5 %
UP0361Z-24PA(PE/PK/PT)	24	0	1.5	36	87.40%	88.30%	300	±5 %
UP0361Z-54PA(PE/PK/PT)	54	0	0.666	36	87.40%	88.30%	400	±4 %

UP0361Z- () () MA (ME/MK/MT) Series



36 Watt Medical Series AC/DC Wall Mount Adapter

- ▶ Safety meets to IEC 60601-1 3.1rd ed. & IEC 62368-1 & IEC 60950-1
- ▶ 2 × MOPP isolation
- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ FCC 47 CRF PART 18 , CISPR 11 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Safety meets to IEC 62368-1 & IEC 60950-1



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)

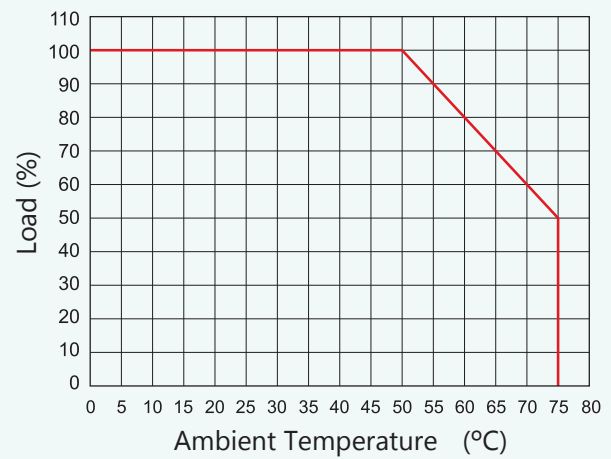
General Specifications

Hold-up Time	6 mS (typ.)
Leakage Current	0.1 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection

Physical Specifications

Dimension (Tolerance ±5 mm)	69 x 32 x 69 mm
Weight	238g

Derating

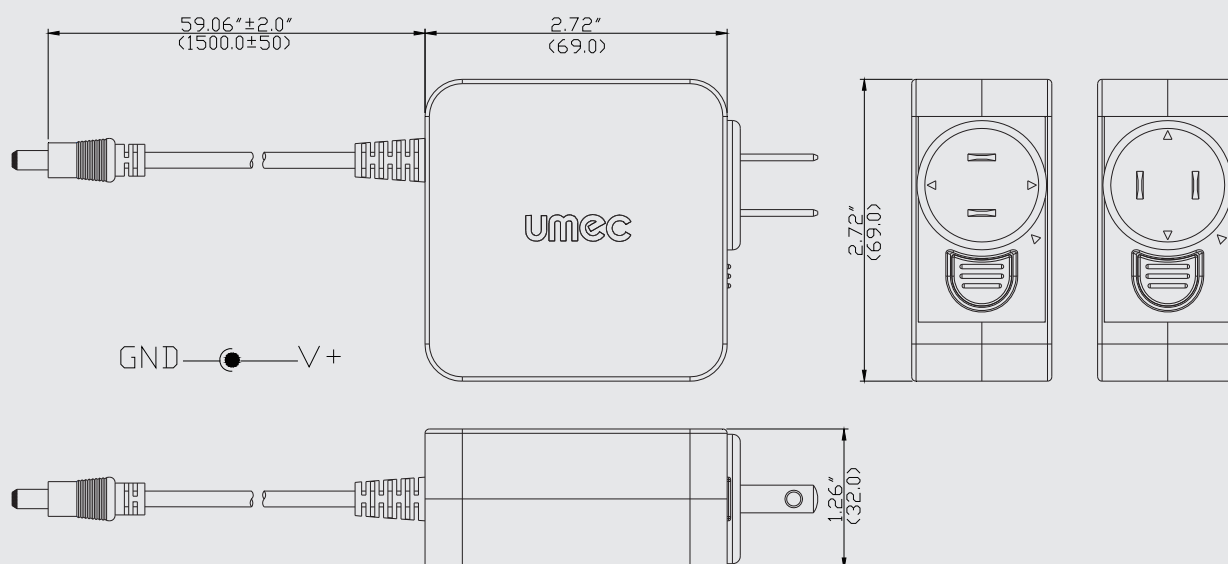


Output Specifications

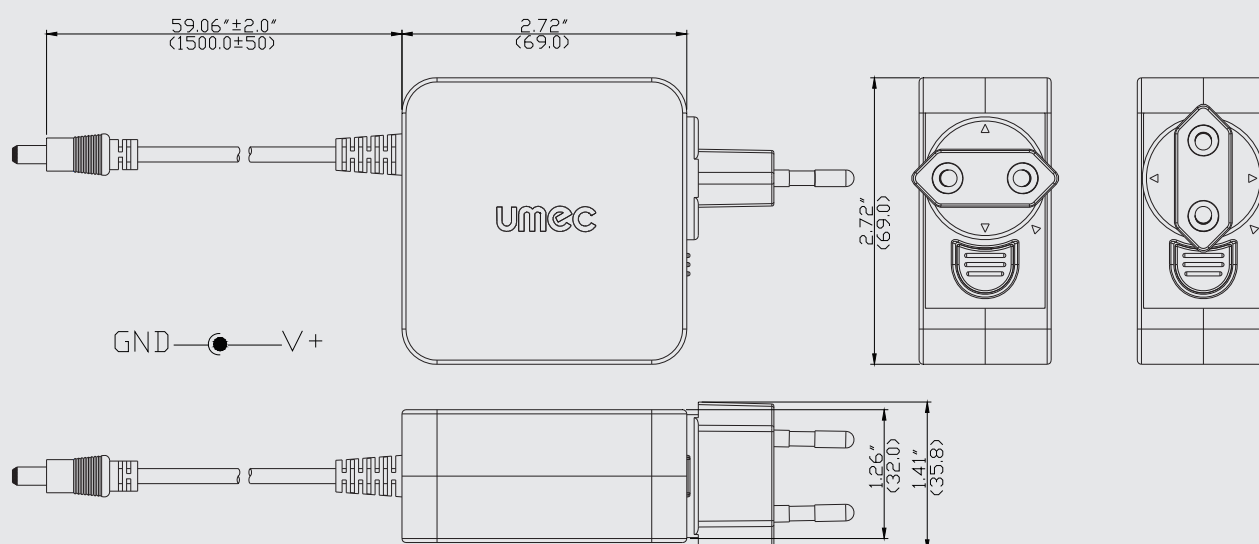
Model Number	Output Voltage (Volts)	Output Current (Amps)		Max. Power (watt)	Average ¹ Efficiency Limit (min.) 115Vac (DoE VI)	Average ¹ Efficiency Limit (min.) 230Vac (Erp Tier2)	Ripple ² P-P (mV)	Total Regulation ³
UP0361Z-12MA(ME/MK/MT)	12	0	3	36	87.40%	88.30%	200	±5 %
UP0361Z-24MA(ME/MK/MT)	24	0	1.5	36	87.40%	88.30%	300	±5 %
UP0361Z-54MA(ME/MK/MT)	54	0	0.666	36	87.40%	88.30%	400	±4 %

Dimension

US TYPE

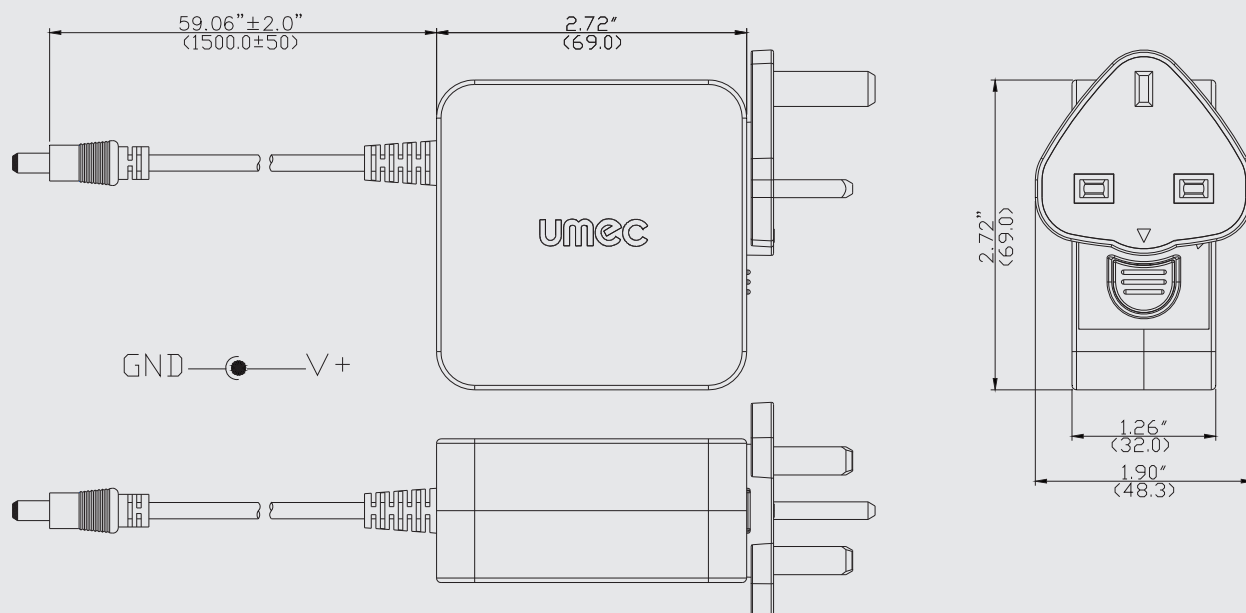


EU TYPE

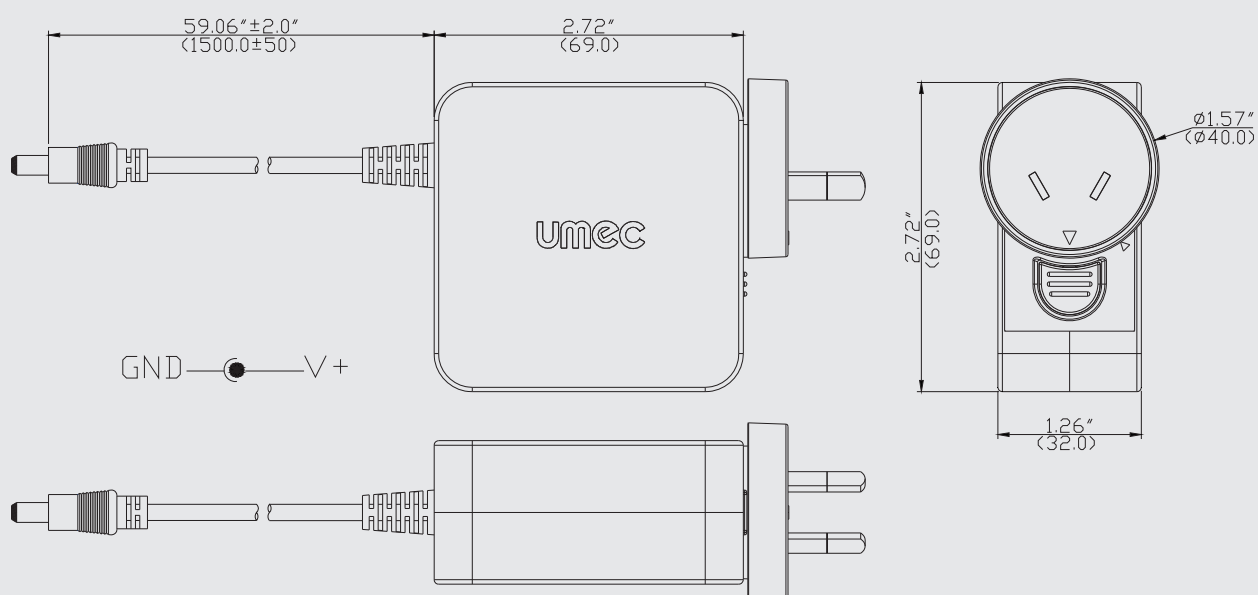


Dimension

UK TYPE



AU TYPE



UP0011Q (UP0021Q/UP0031Q/UP0051Q) -XXPA Series



1 ~ 5 Watt AC / DC Wall Mount Adapter

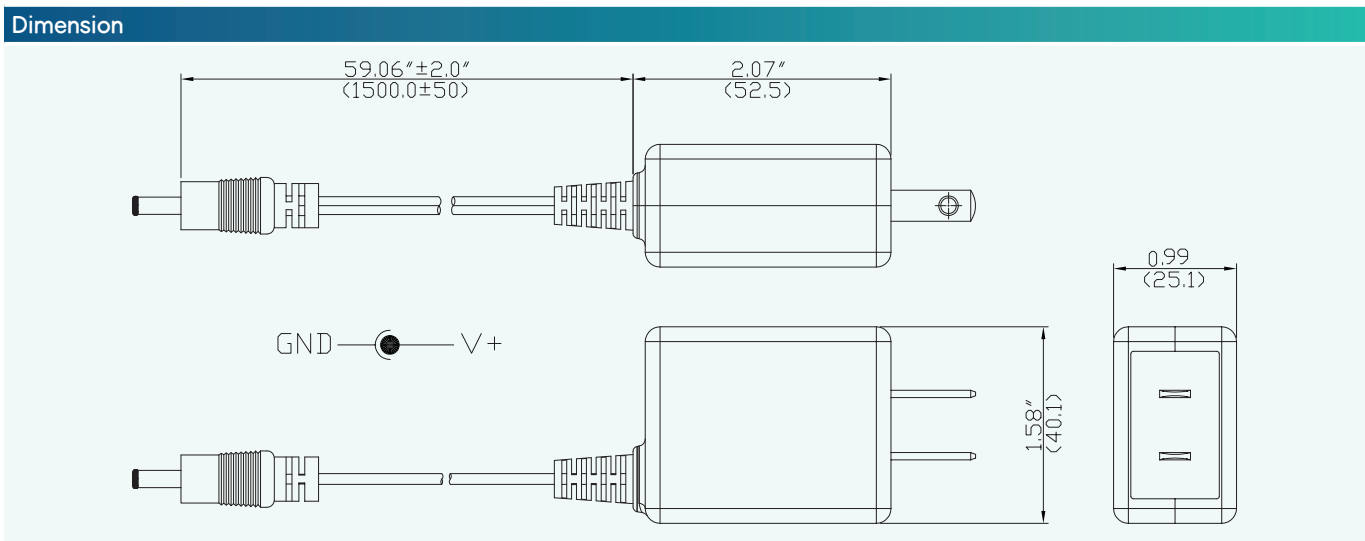
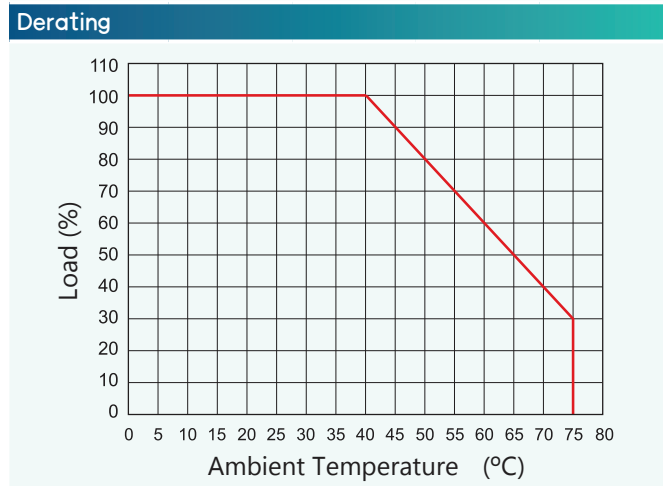


- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.1 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1 (2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	5 Watt (max.)
Total Regulation	±8 % (for 5V.dc)
Ripple & Noise	<100 mV max. (for 5V.dc)
Temperature Coefficient	±0.03 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75 °C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	52.5 x 40.1 x 25.1 mm
Weight	70g

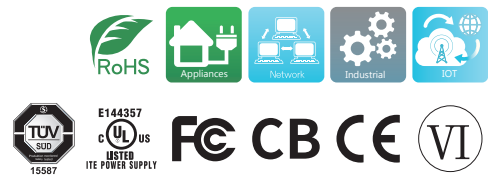
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0011Q-05P	5V	0.25A	62.59 %	CB, PSE, VI
UP0021Q-05P	5V	0.5A	68.19 %	CB
UP0031Q-05P	5V	0.7A	70.86 %	CB
UP0051Q-05P	5V	1A	73.62	CB



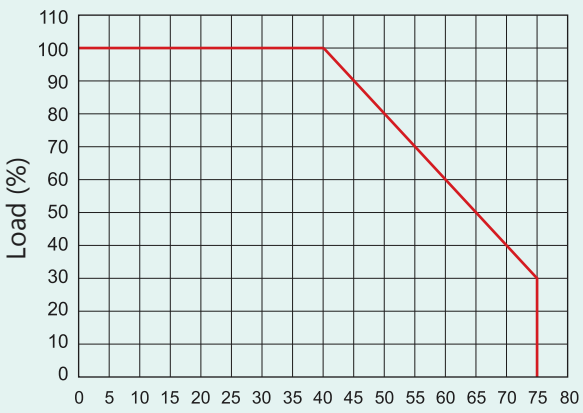
UP0061D-XXPA (PC/PE/PK/PT) Series

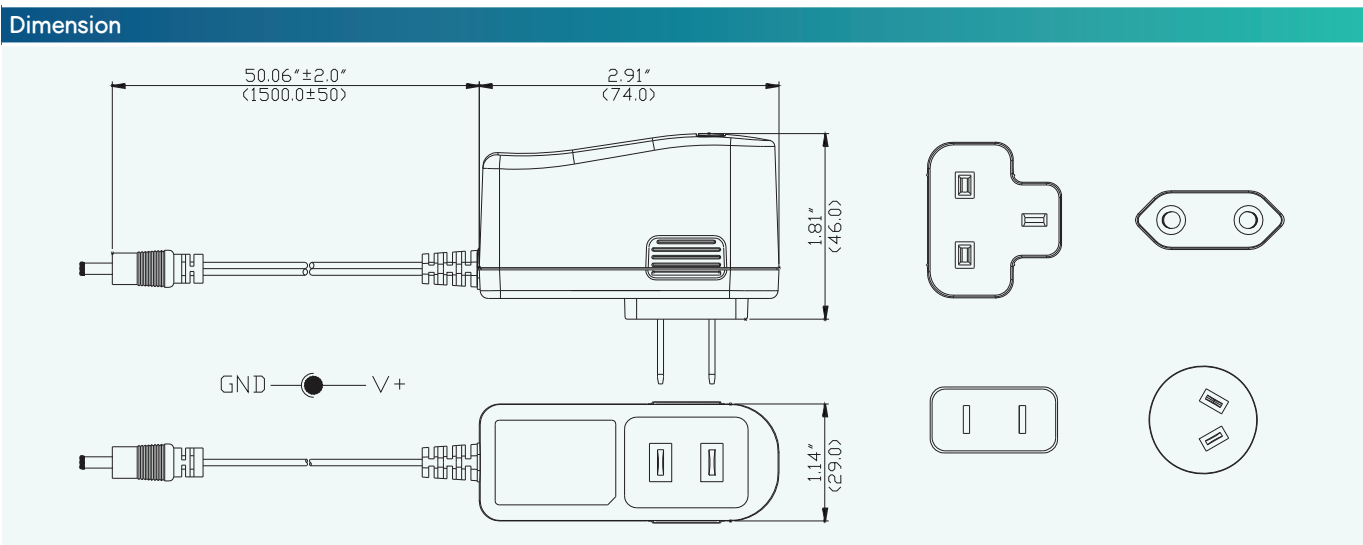
6 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.1 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125/EC



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	6 Watt (max.)
Total Regulation	± 5 % (for 12V.dc)
Ripple & Noise	< 200 mV max.(for 12Vdc)
Temperature Coefficient	± 0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free- Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	74.0 x 46.0 x 29.0 mm
Weight	85g

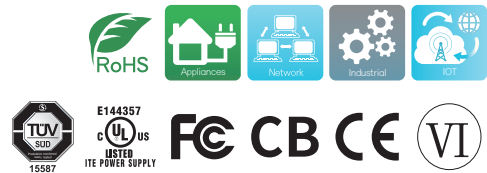
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0061D-12P	12V	0.5A	78.88%	UL, CUL, TUV, FCC, CB, CE, VI
Derating				
				



UP0061M-XXPA (PC/PE/PK) Series

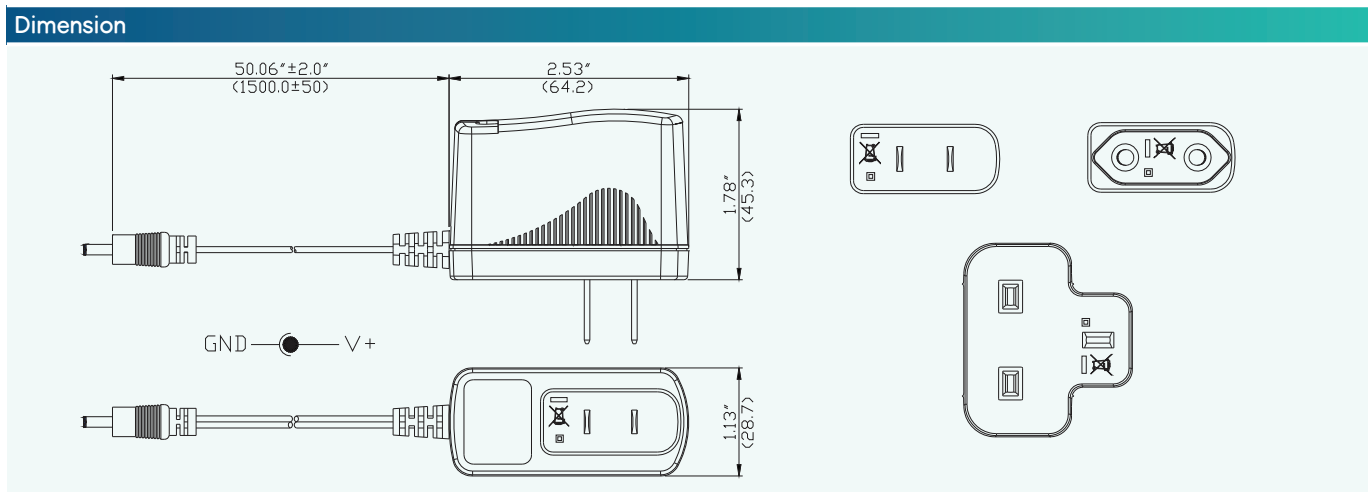
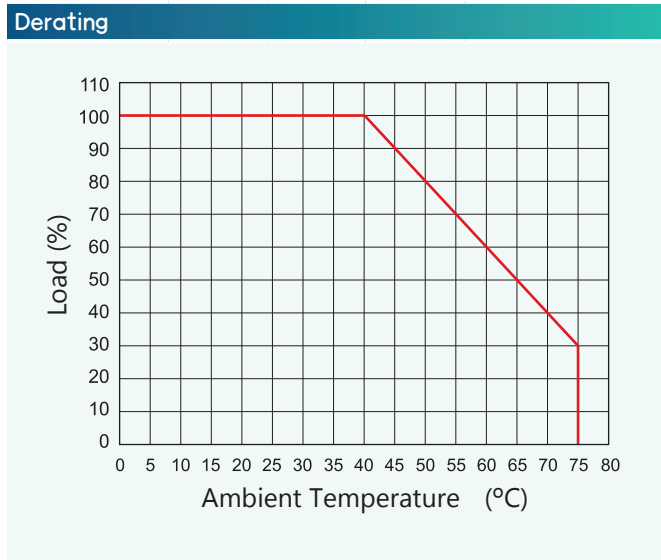
6 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	6 Watt (max.)
Total Regulation	±8% (for 5V.dc) ±5% (for 12V.dc)
Ripple & Noise	<100 mV max. (for 5V.dc) <200 mV max.(for 12Vdc)
Temperature Coefficient	±0.03% / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to +75 °C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free- Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	64.2 x 45.3 x 28.7 mm
Weight	75g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0061M-05P	5V	1A	73.77%	UL, CUL, TUV, CB, FCC, CE, VI
UP0061M-12P	12V	0.5A	79.03%	UL, CUL, TUV, CB, FCC, CE, VI



UP0121D-XXPA (PC/PE/PK/PT) Series

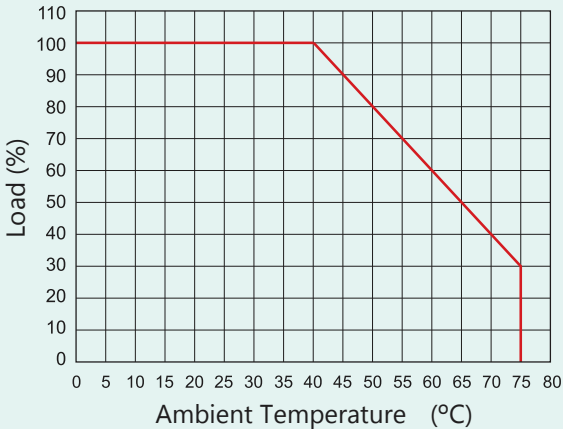
12 Watt AC / DC Wall Mount Adapter

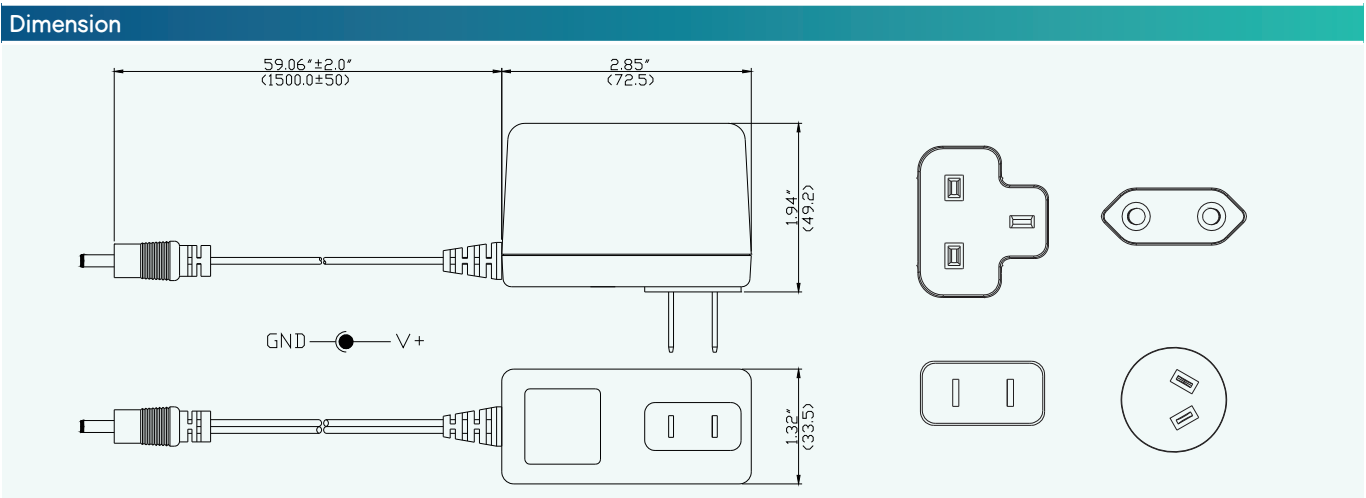
- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ VOIP / Loop / ISN Performance Improve



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	12 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75 °C (with derating)
Storage Temperature	- 40°C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	72.5 x 49.2 x 33.5 mm
Weight	90g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0121D-12P	12V	1A	83.26%	UL, CUL, TUV, CB, FCC, CE, VI

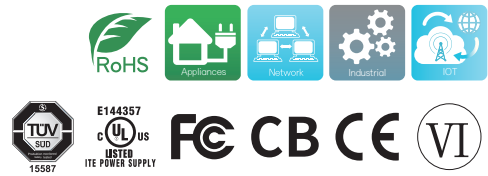
Derating	
	



UP0121M-XXPA (PC/PE/PK/PT) Series

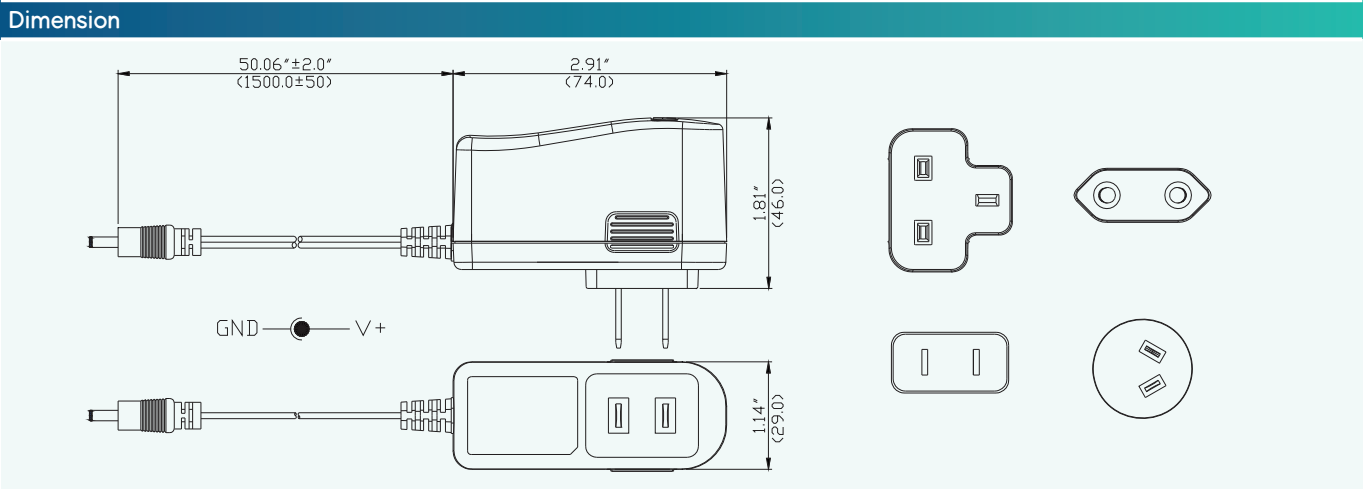
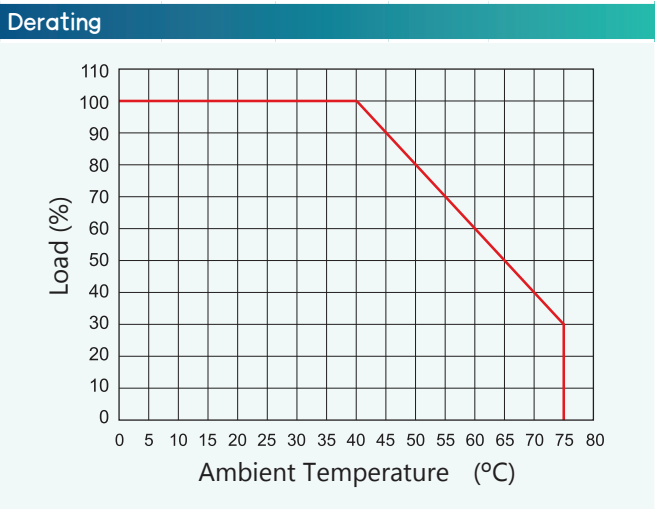
12 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	12 Watt (max.)
Total Regulation	±8% (for 5V.dc) ±5% (for 12V.dc)
Ripple & Noise	<100 mV max. (for 5V.dc) <200 mV max. (for 12V.dc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	- 40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	74.0 x 46.0 x 29.0 mm
Weight	90g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0121M-05P	5V	2A	79.00%	UL, CUL, TUV, CB, FCC, CE, VI, PSE
UP0121M-12P	12V	1A	83.26%	UL, CUL, TUV, CB, FCC, CE, VI, PSE



UP0181D-XXPA (PC/PE/PK/PT) Series

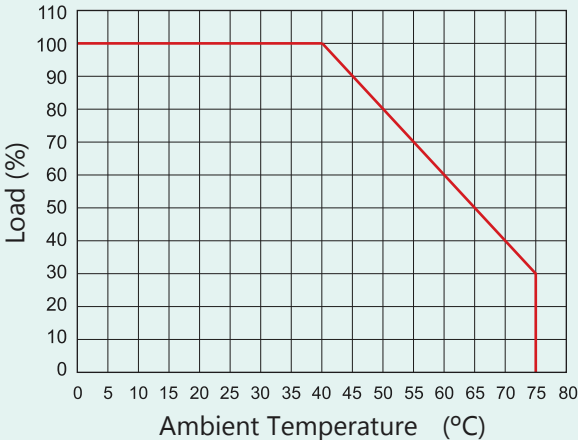
18 Watt AC / DC Wall Mount Adapter

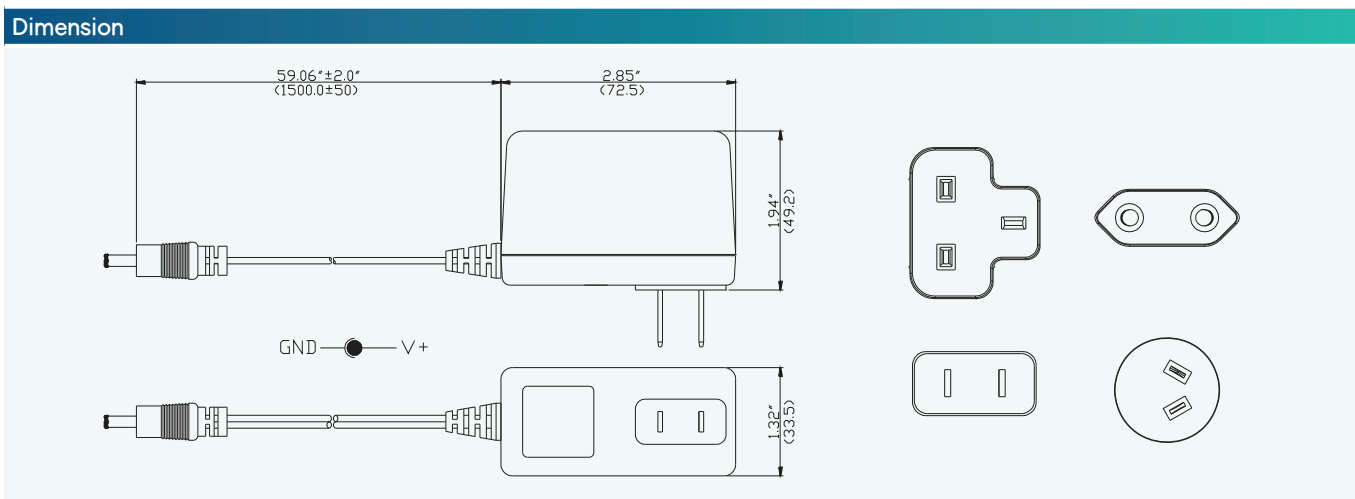
- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ VOIP / Loop / ISN Performance Improve



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	18 Watt (max.)
Total Regulation	± 5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	72.5 x 49.2 x 33.5 mm
Weight	90g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0181D-12P	12V	1.5A	85.45 %	UL, CUL, TUV, CB, CE, FCC, VI

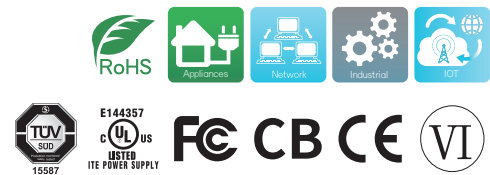
Derating	
	



UP0181M-XXPA (PC/PE/PK/PT) Series

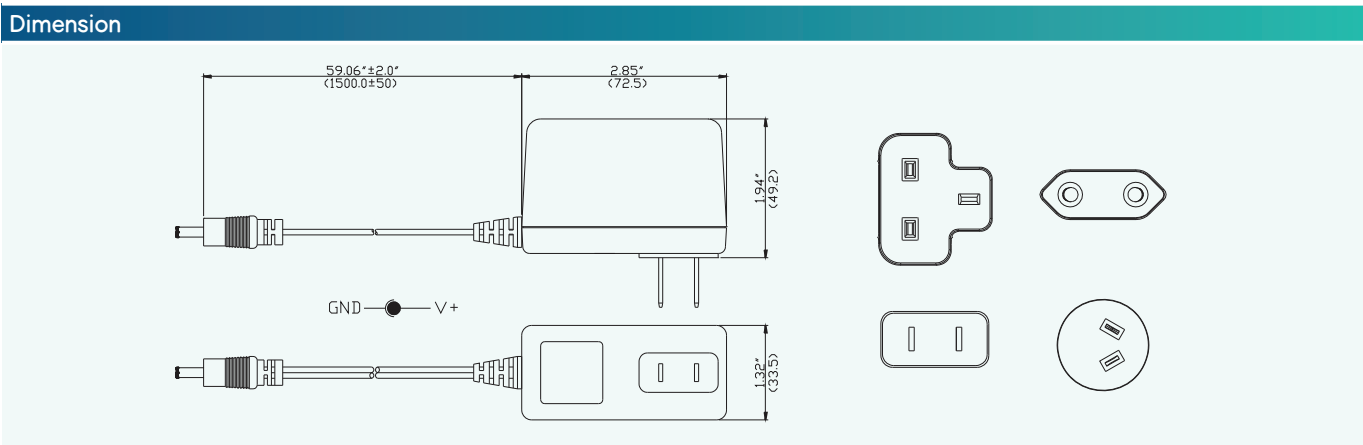
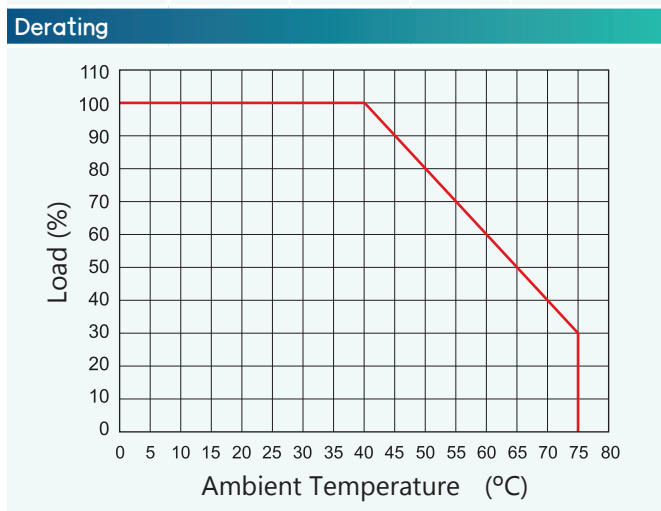
18 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.1 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2 (for 12Vdc)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	18 Watt (max.)
Total Regulation	±8 % (for 5V.dc) ±5 % (for 12V.dc)
Ripple & Noise	<100 mV max. (for 5V.dc) <200 mV max.(for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to +75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	72.5 x 49.2 x 33.5 mm
Weight	90g

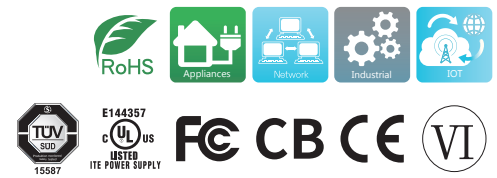
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0181M-05P	5V	2.5A	80.22 %	UL, CUL, TUV, CB, FCC, CE, VI
UP0181M-12P	12V	1.5A	85.452%	UL, CUL, TUV, CB, FCC, CE, VI, PSE



UP0251D-XXPA (PC/PE/PK/PT) Series

25 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ VOIP / ISN / Loop Performance Improve



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
Output Specifications	
Output Power	25 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	72.5 x 53.4 x 33.5 mm
Weight	140g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0251D-12P	12V	2.1A	87.01%	UL, CUL, TUV, CB, FCC, CE, VI
UP0251D-12P	12V	2A	86.80%	UL, CUL, TUV, CB, FCC, CE, VI
Derating				

Dimension	

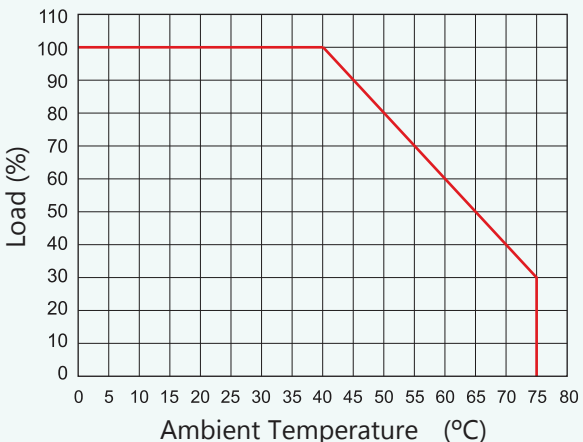
UP0251M-XXPA (PC/PE/PK/PT) Series

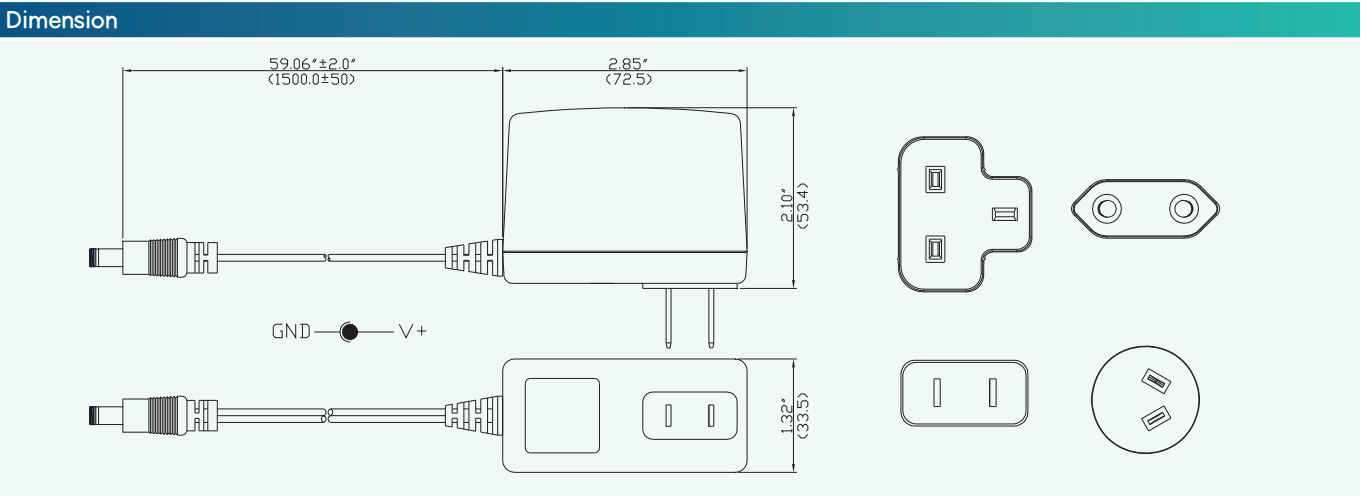
25 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Output Specifications	
Output Power	25 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Physical Specifications	
Dimension (Tolerance ±5 mm)	72.5 x 53.4 x 33.5 mm
Weight	140g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0251M-12P	12V	2.1A	87.01%	UL, CUL, TUV, CB, FCC, CE, VI
UP0251M-12P	12V	2A	86.80%	UL, CUL, TUV, CB, FCC, CE, VI
Derating				
				



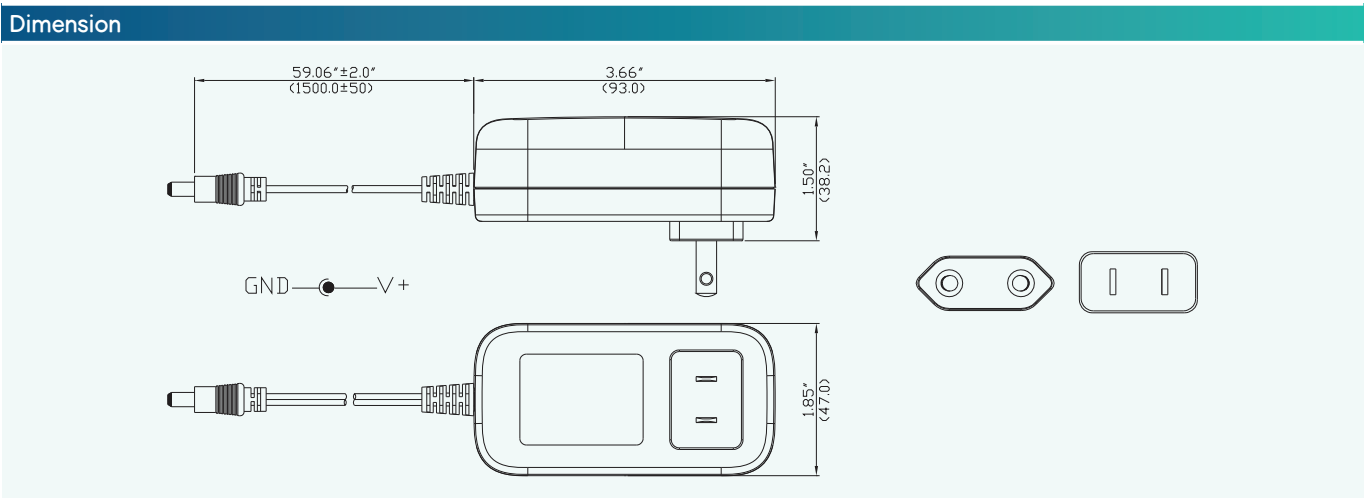
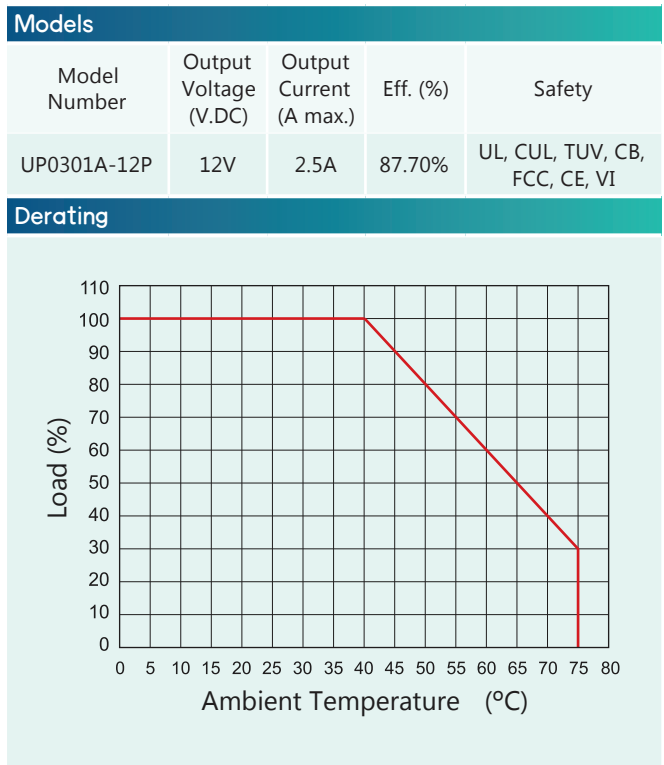
UP0301A-XXPA (PE) Series

30 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ VOIP / ISN / Loop Performance Improve



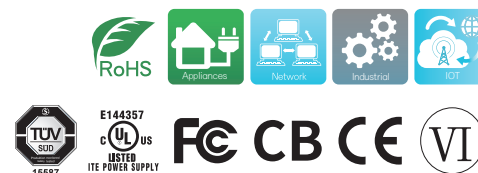
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
Output Specifications	
Output Power	30 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	93.0 x 38.2 x 47.0 mm
Weight	140g



UP0301M-XXPA (PE) Series

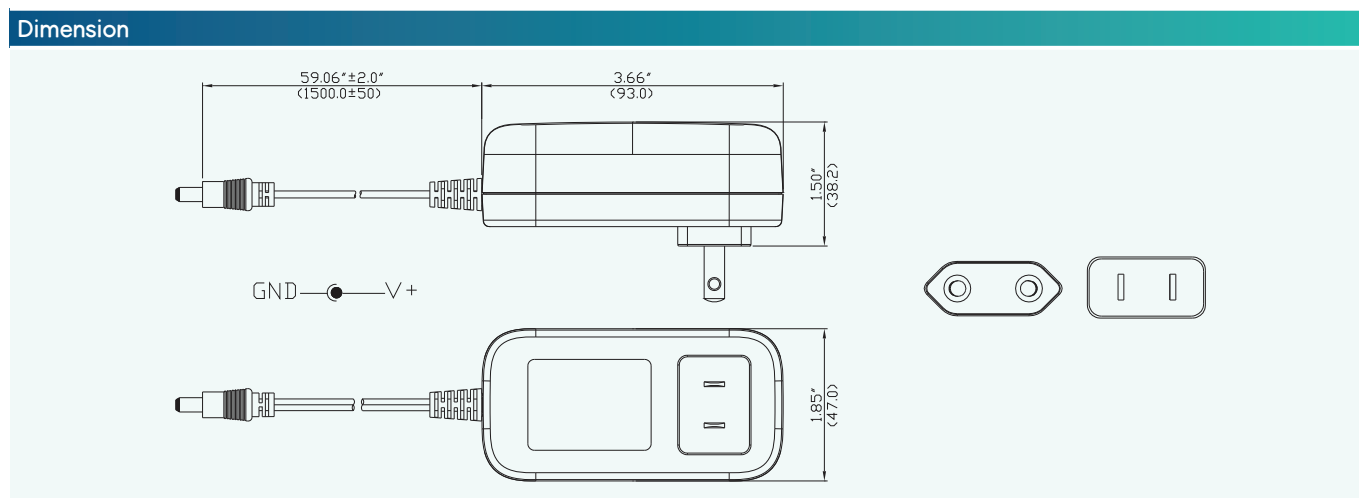
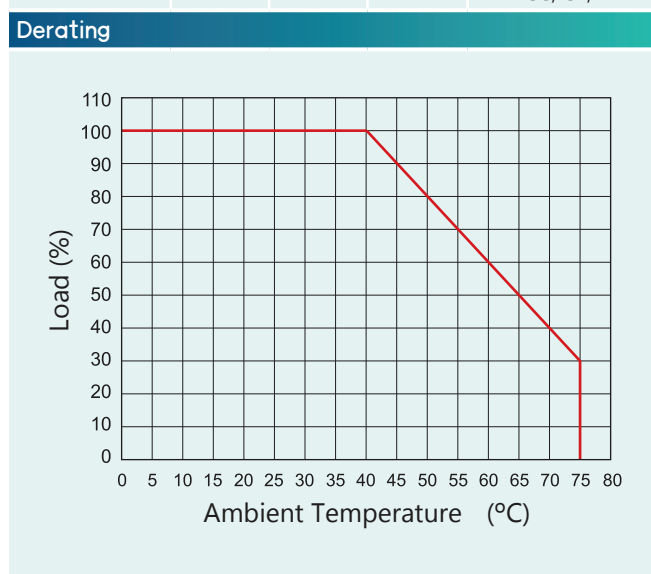
30 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
Output Specifications	
Output Power	30 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to +75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	93.0 x 38.2 x 47.0 mm
Weight	140g

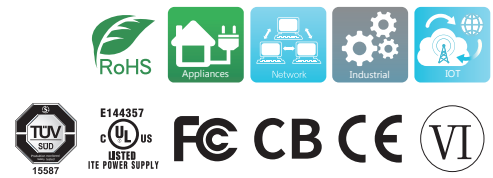
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0301M-12P	12V	2.5A	87.70%	UL, CUL, TUV, CB, FCC, CE, VI



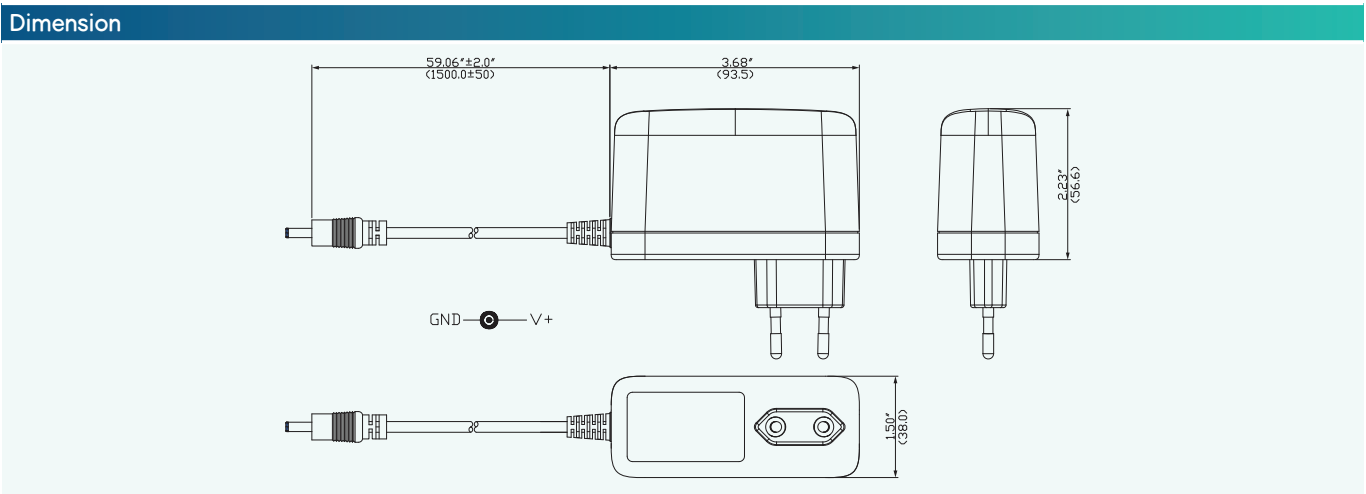
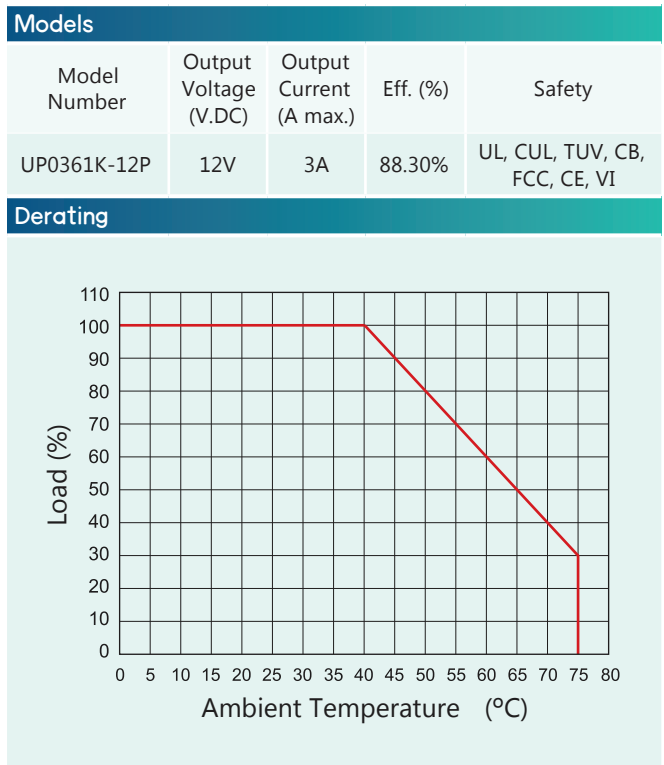
UP0361K-XXPE Series

36 Watt AC / DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1(2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009/125/EC
- ▶ VOIP / ISN / Loop Performance Improve



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150 A max. (Cold Start)
Output Specifications	
Output Power	36 Watt (max.)
Total Regulation	±5 % (for 12V.dc)
Ripple & Noise	<200 mV max. (for 12Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	93.5 x 38.0 x 56.6 mm
Weight	160g



UP0421K- () () PA(PE) Series

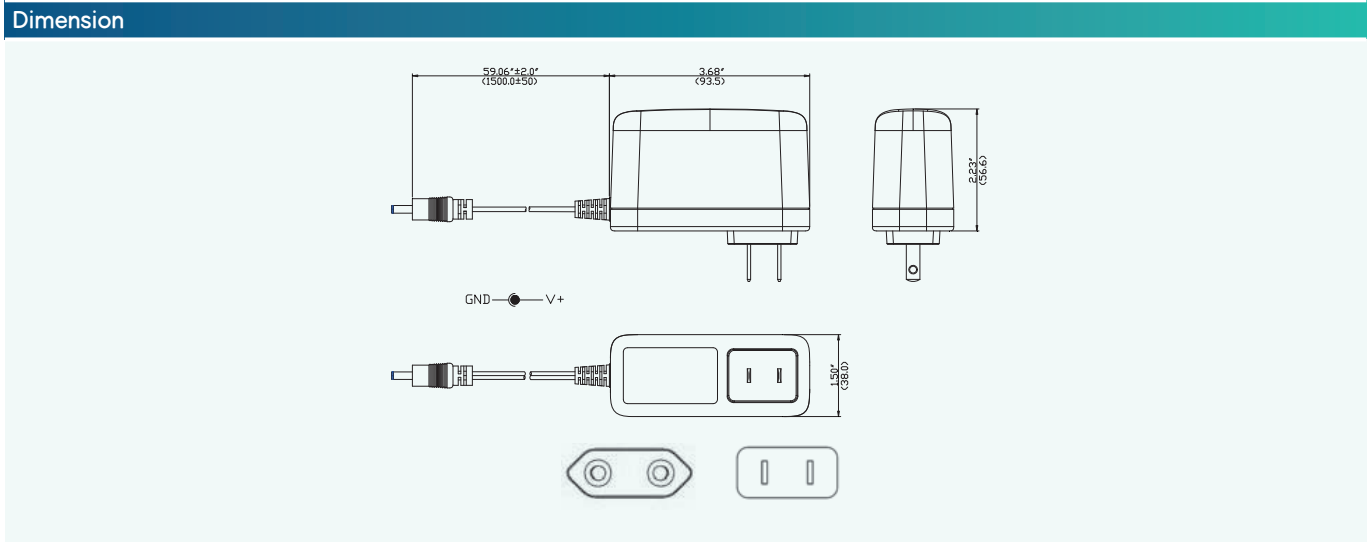
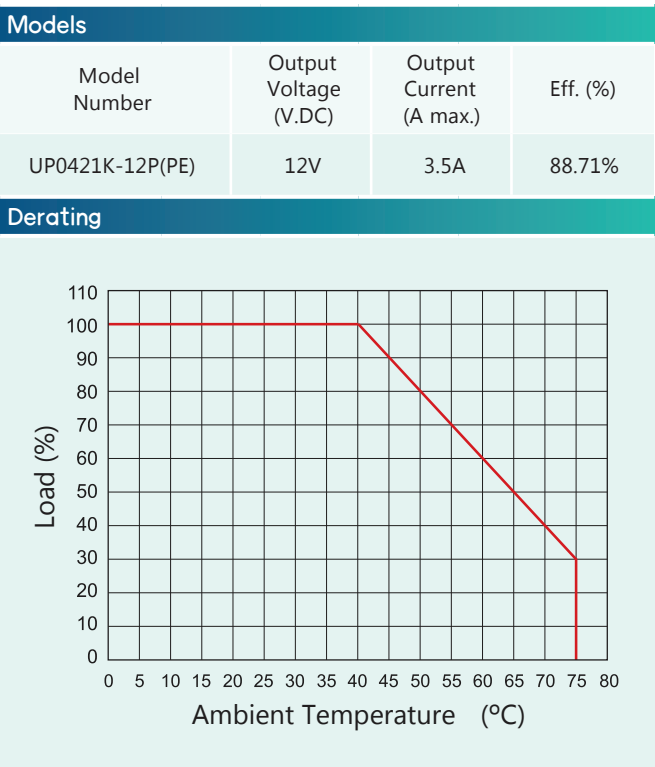


42 Watt AC/DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ VOIP Performance Improve
- ▶ Loop Performance Improve
- ▶ ISN Performance Improve



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 66 Hz
Inrush Current	150A max.(Cold Start)
Output Specifications	
Output Power	42 Watt (max.)
Total Regulation	± 5 %
Ripple & Noise	<200mV max.
Temperature Coefficient	± 0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	3000 VAC (4242 VDC)
Operating Temperature	0 to +75°C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free-Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	93.5 x 38 x 56.6 mm
Weight	190g



UP0481A- () () PA(PE) Series

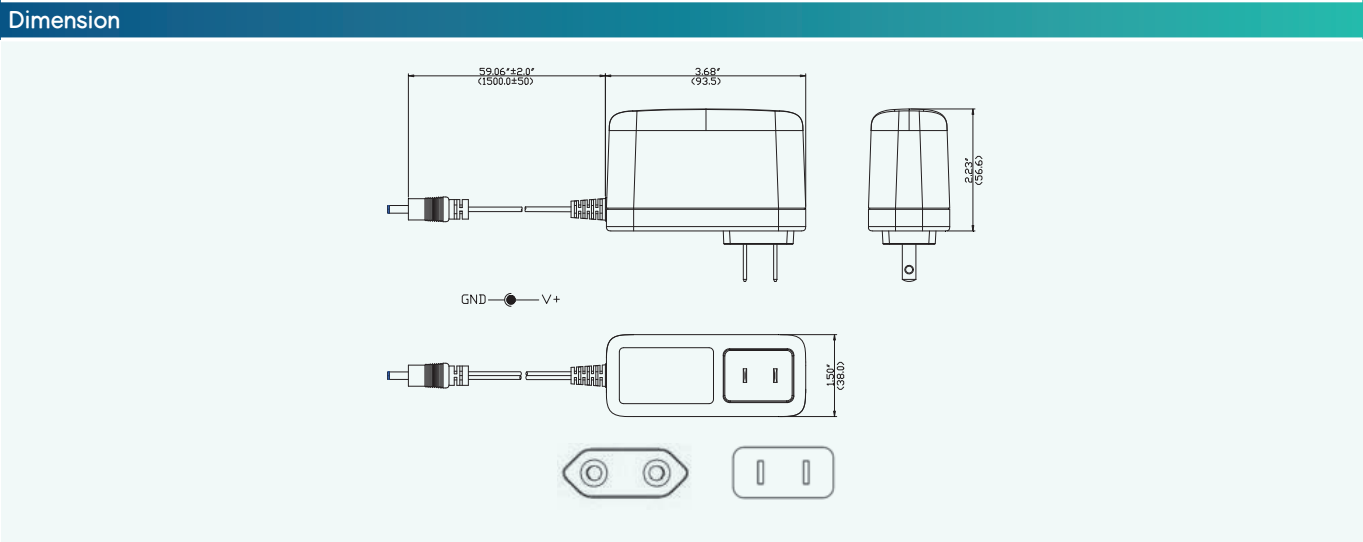
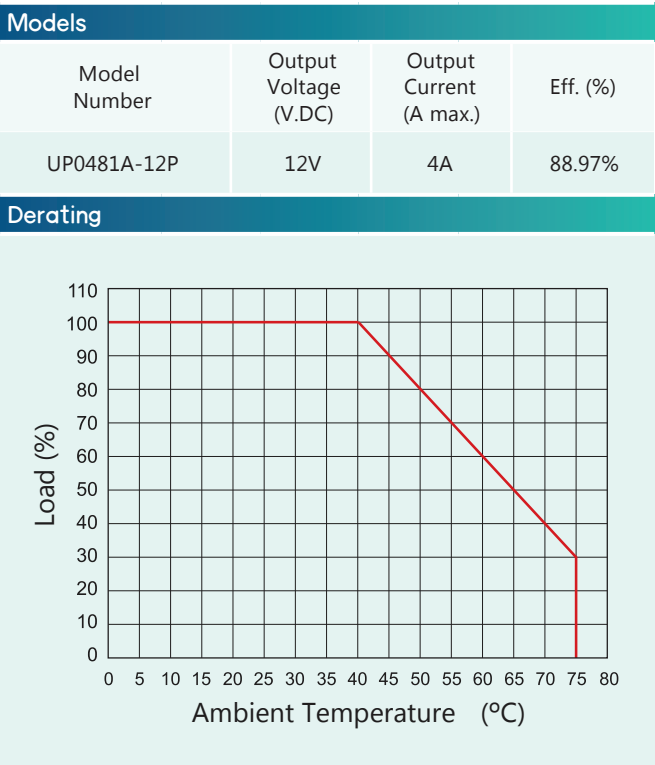


48 Watt AC/DC Wall Mount Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ VOIP Performance Improve
- ▶ Loop Performance Improve
- ▶ ISN Performance Improve



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 66 Hz
Inrush Current	120A max.(Cold Start)
Output Specifications	
Output Power	48 Watt (max.)
Total Regulation	± 5 %
Ripple & Noise	<200mV max.
Temperature Coefficient	± 0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	3000 VAC (4242 VDC)
Operating Temperature	0 to +75°C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free-Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	93.5 x 38 x 56.6 mm
Weight	190g



UPD045B-()()PA(PE/PK/PT) Series



45 Watt AC/DC USB PD Type C Wall Mount Adapter

- ▶ Interchangeable AC plug with multiple country options
- ▶ Power direction of EU and US type is no longer fixed
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.075 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI
- ▶ Meet ErP (EU) 2019/1782
- ▶ Meet CoC V5 Tier2
- ▶ Meet Power Delivery 3.0 (USB PD) + QC4.0 fast charge



Input Specifications

Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	80A max.(Cold Start)

Output Specifications

Output Power	45 Watt (max.)
Total Regulation	± 5 %
Ripple & Noise	<200mV max.
Temperature Coefficient	± 0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	6mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	3000 VAC (4242 VDC)
Operating Temperature	0 to +75°C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	0 to 95 % RH
Cooling	Free-Air Convection

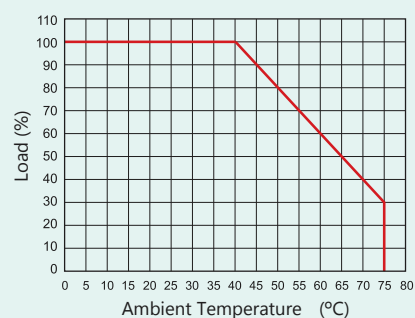
Physical Specifications

Dimension (Tolerance ±5 mm)	64 x 64 x 31 mm
Weight	116g

Models

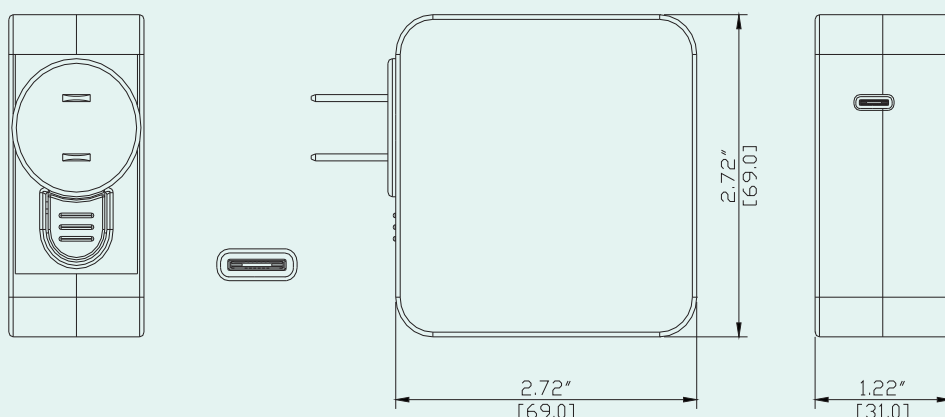
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UPD045B-01PA (PE/PK/PT)	5	3	81.83
	9	3	87.30
	12	3	88.30
	15	3	88.85
	20	2.25	88.85

Derating



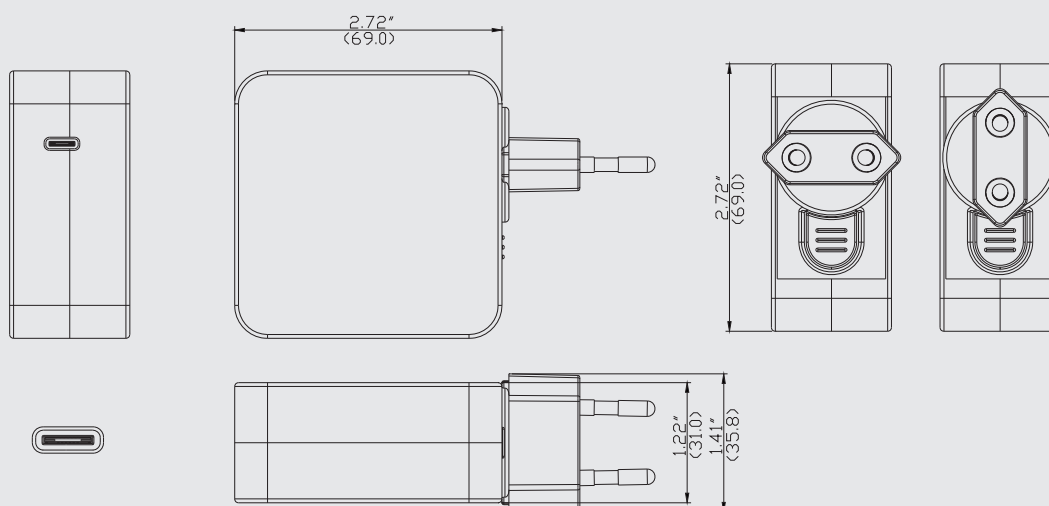
Dimension

US TYPE

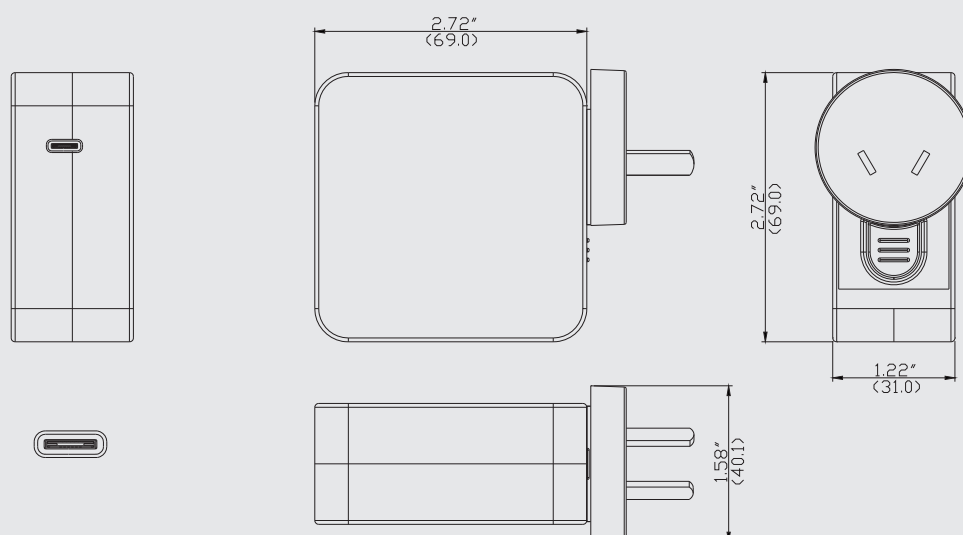


Dimension

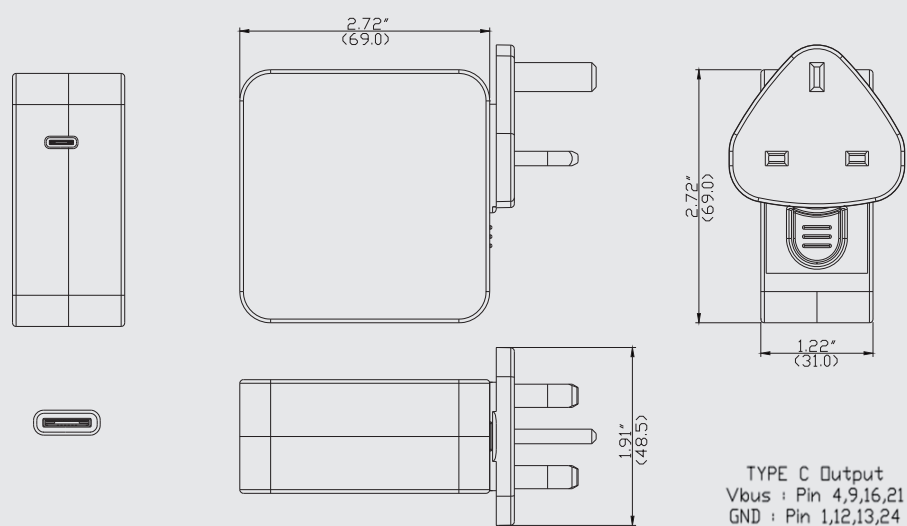
EU TYPE



UK TYPE



AU TYPE



UP0181V-XXPP (PT/PB) Series

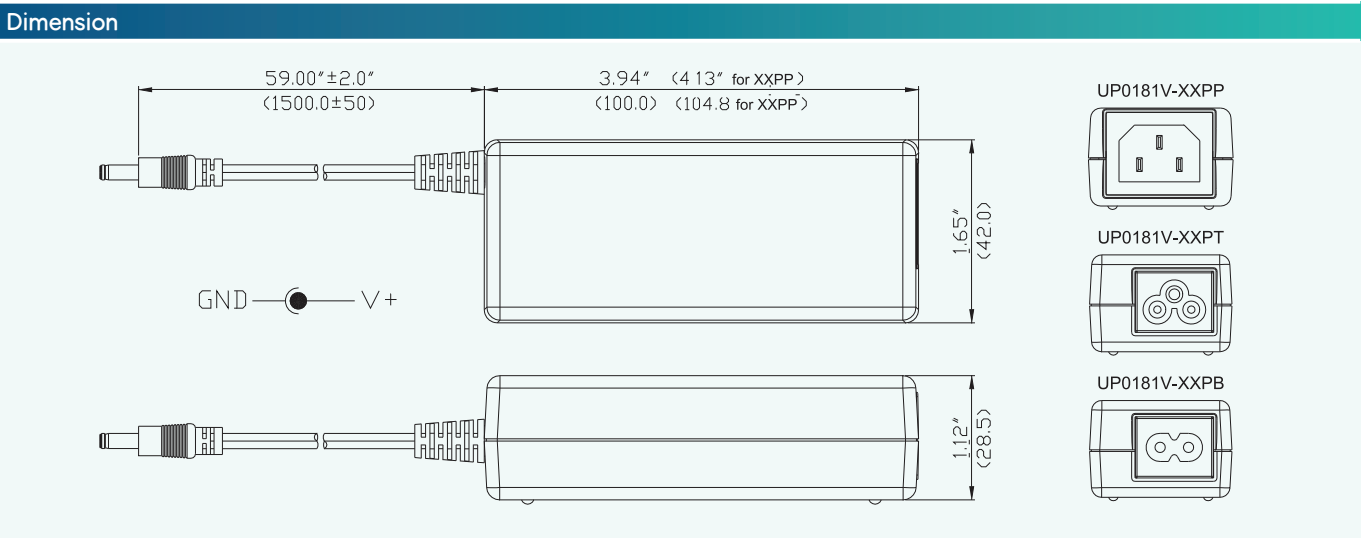
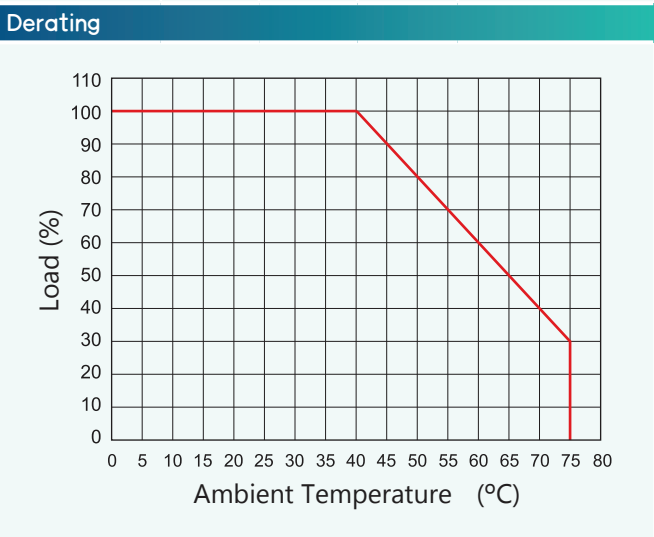
18 Watt AC / DC Desktop Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.1 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1(2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009/125/EC



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	18 Watt (max.)
Total Regulation	±8 % (for 5V.dc)
Ripple & Noise	<100 mV max. (for 5V.dc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	100.0 x 42.0 x 28.5 mm
Weight	160g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0181V-05P	5V	2.5A	80.22%	Pending
UP0181V-05P	5V	3A	81.39%	UL, CUL, TUV, CB, VI



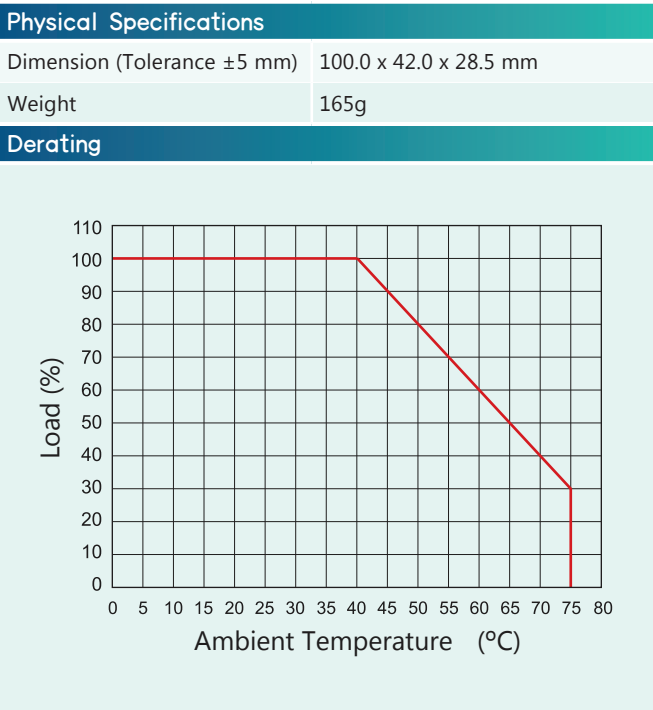
UP0451H-XXPP (PT/PB) Series

45 Watt AC / DC Desktop Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption 12V & 24V Less than 0.075 Watt , 48-57Vout Less than 0.1Watt
- ▶ Meet DoE efficiency Level VI & Erp Tier1 (2017)
- ▶ Meet CoC V5 Tier2
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC

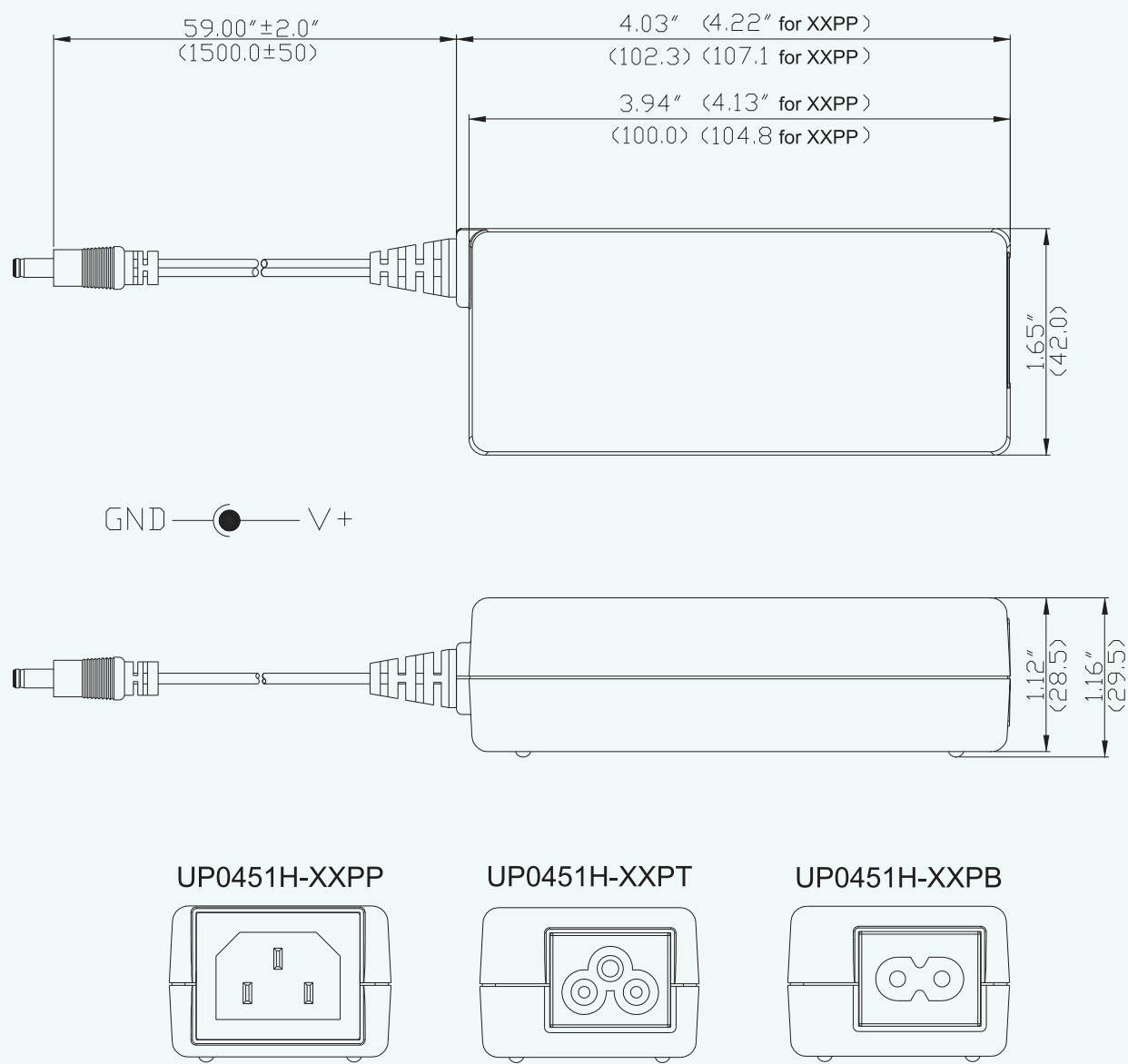


Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	45 Watt (max.)
Total Regulation	±5 % (for 12V ~ 57V.dc)
Ripple & Noise	<200 ~ 570mV max. (for 12 ~ 57Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection



Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0451H-12P	12V	3.75A	88.85%	UL, CUL, TUV, CB, VI, PSE
UP0451H-24P	24V	1.875A	88.85%	UL, CUL, TUV, CB, VI
UP0451H-54P	48V	1.04A	89.00%	UL, CUL, TUV, CB, VI, CE, FCC, PSE
UP0451H-54P	49V	1.02A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	50V	1.00A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	51V	0.98A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	52V	0.96A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	53V	0.94A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	54V	0.92A	89.00%	UL, CUL, TUV, CB, VI, CE, FCC, PSE
UP0451H-54P	55V	0.90A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	56V	0.89A	89.00%	UL, CUL, TUV, CB, VI, PSE
UP0451H-54P	57V	0.87A	89.00%	UL, CUL, TUV, CB, VI, PSE

Dimension



UP0651S-XXPB Series



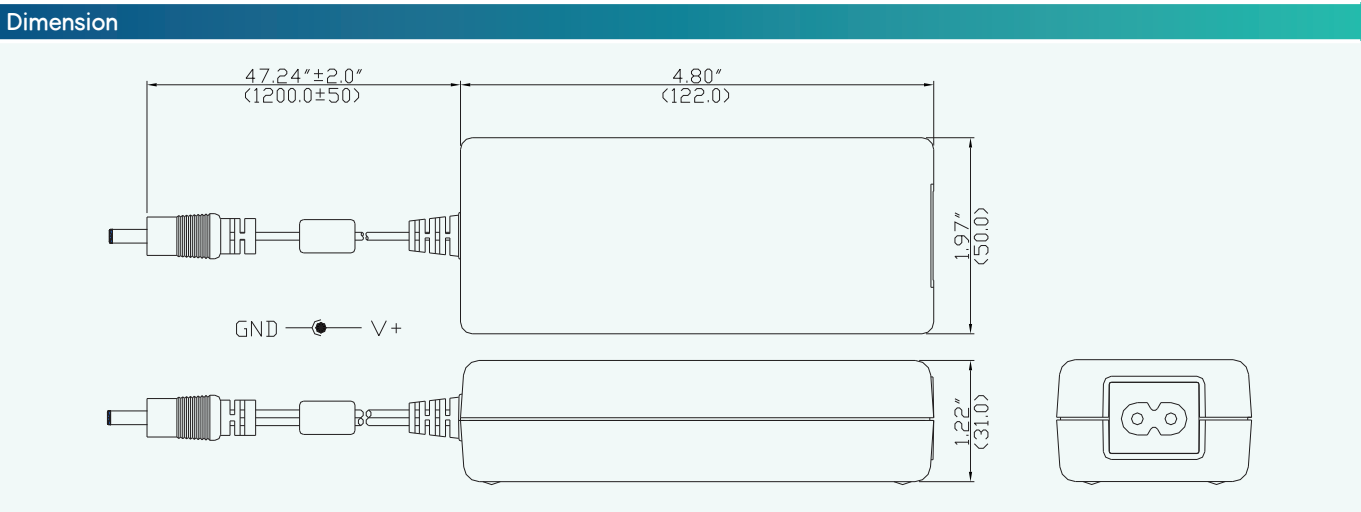
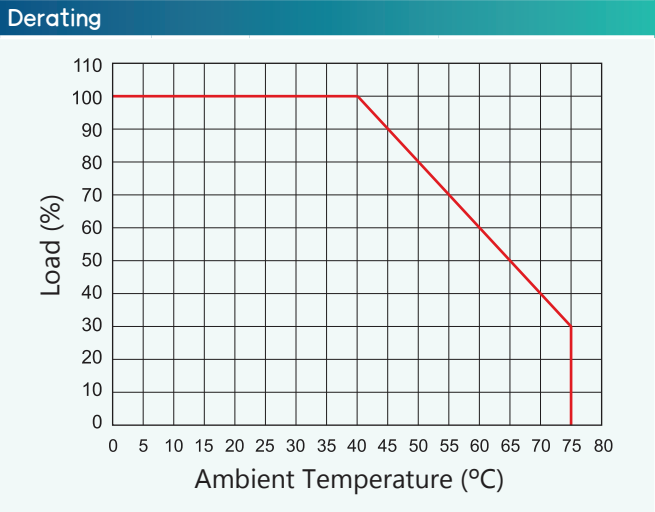
65 Watt AC / DC Desktop Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.21 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1 (2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ Safety Approvals pending



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	65 Watt (max.)
Total Regulation	± 5 % (for 12 ~ 57Vdc)
Ripple & Noise	<300 ~ 570 mV max. (for 12 ~ 57 Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	6 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	122.0 x 50.0 x 31.0 mm
Weight	225g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0651S-12P	12V	5A	88.00%	Pending
UP0651S-24P	24V	2.7A	88.00%	Pending
UP0651S-54P	54V	1.2A	88.00%	UL/CB/VI/CE/FCC
UP0651S-57P	57V	1.14A	88.00%	UL/CB/VI/CE/FCC



UP0851A-XXPB Series

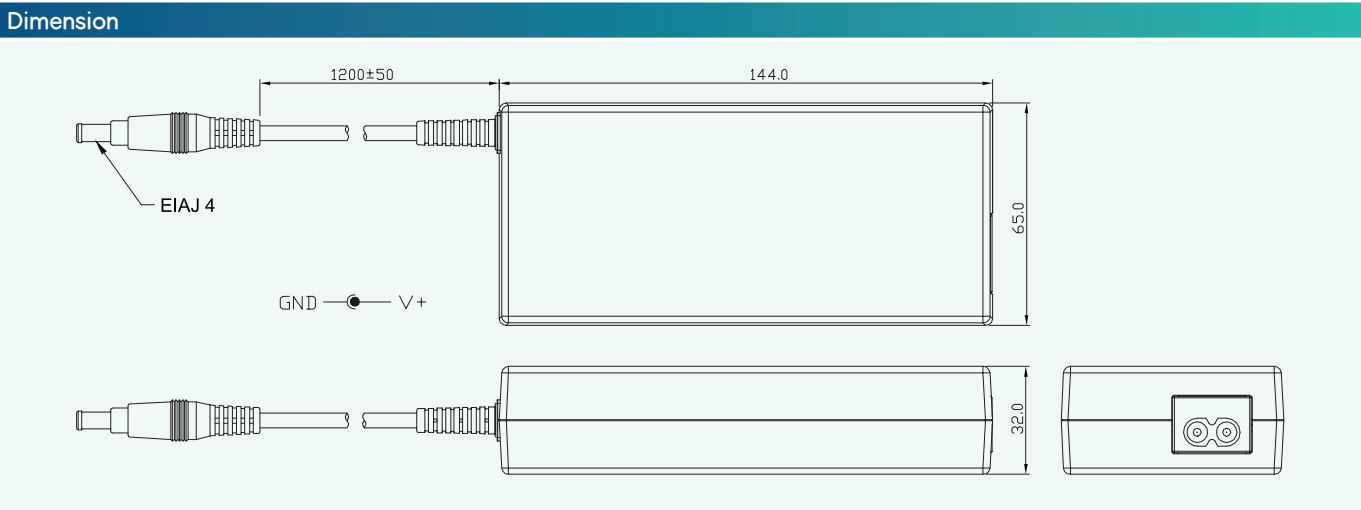
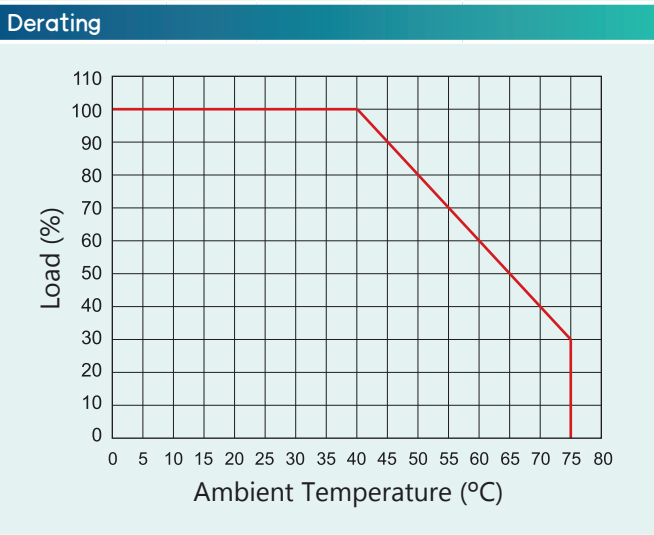
85 Watt AC / DC Desktop Adapter

- ▶ Universal AC input with active PFC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.21 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1 (2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ High efficiency up to 90%



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	130 A max. (Cold Start)
Output Specifications	
Output Power	85 Watt (max.)
Total Regulation	± 5 % (for 12 V ~ 54 V.dc)
Ripple & Noise	<120 ~ 300 mV max (for 12 ~ 54 Vdc)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Continuous auto-recovery
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	0.25 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	144.0 x 65.0 x 32.0 mm
Weight	350g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0851A-12PB	12V	6.67A	88.00%	Pending
UP0851A-19PB	19V	4.21A	89.00%	Pending
UP0851A-54PB	54V	1.6A	90.00%	UL, CUL, TUV, CB, CE, FCC, VI



UP1201A-XXP Series

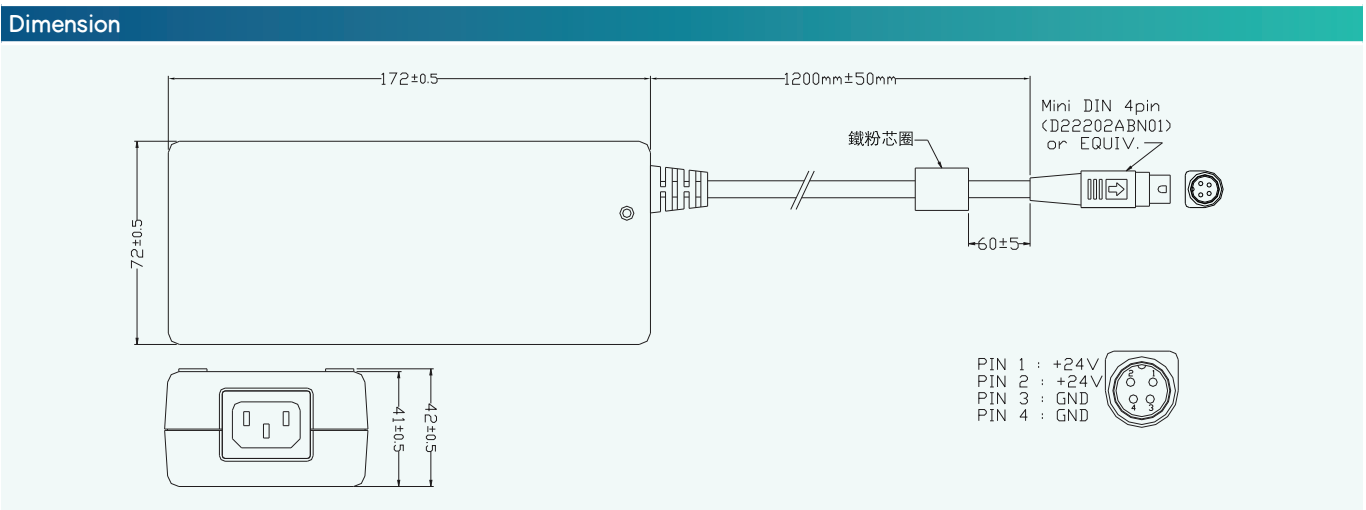
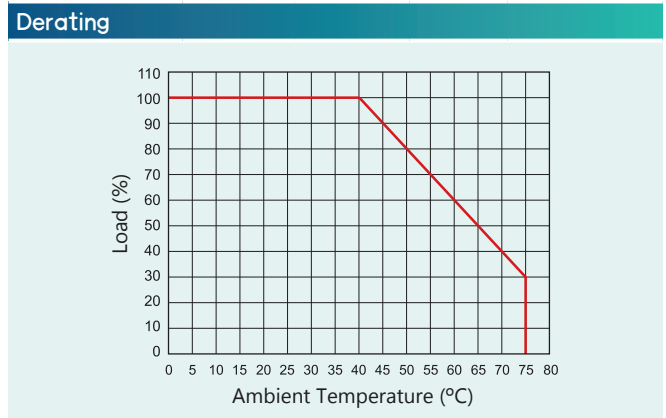
120 Watt AC / DC Desktop Adapter

- ▶ Universal AC input with active PFC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ RoHS Compliant
- ▶ No Load Input Power Consumption Less than 0.21 Watt at 115 & 230 VAC Input
- ▶ Meet DoE efficiency Level VI & Erp Tier1 (2017)
- ▶ Meet Department of Energy 10 CFR Part 430
- ▶ Meet ERP Directive 2009 / 125 / EC
- ▶ High efficiency up to 90%



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	130 A max. (Cold Start)
Output Specifications	
Output Power	120 Watt (max.)
Total Regulation	± 5 % (for 12 V ~ 54 V.dc)
Ripple & Noise	< 120 ~ 300 mV max (for 12 ~ 54 Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous auto-recovery
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	0.5 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	172.0 x 72.0 x 42.0 mm
Weight	600g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP1201A-12PP	12V	7.5A	88.00%	UL, CUL, TUV, CB, CE, FCC, VI
UP1201A-20PP	20V	5A	89.00%	UL, CUL, TUV, CB, CE, FCC, VI
UP1201A-24PP	24V	4.17A	89.00%	UL, CUL, TUV, CB, CE, FCC, VI
UP1201A-54PP	54V	2.22A	90.00%	UL, CUL, TUV, CB, CE, FCC, VI



UP1601B SERIES

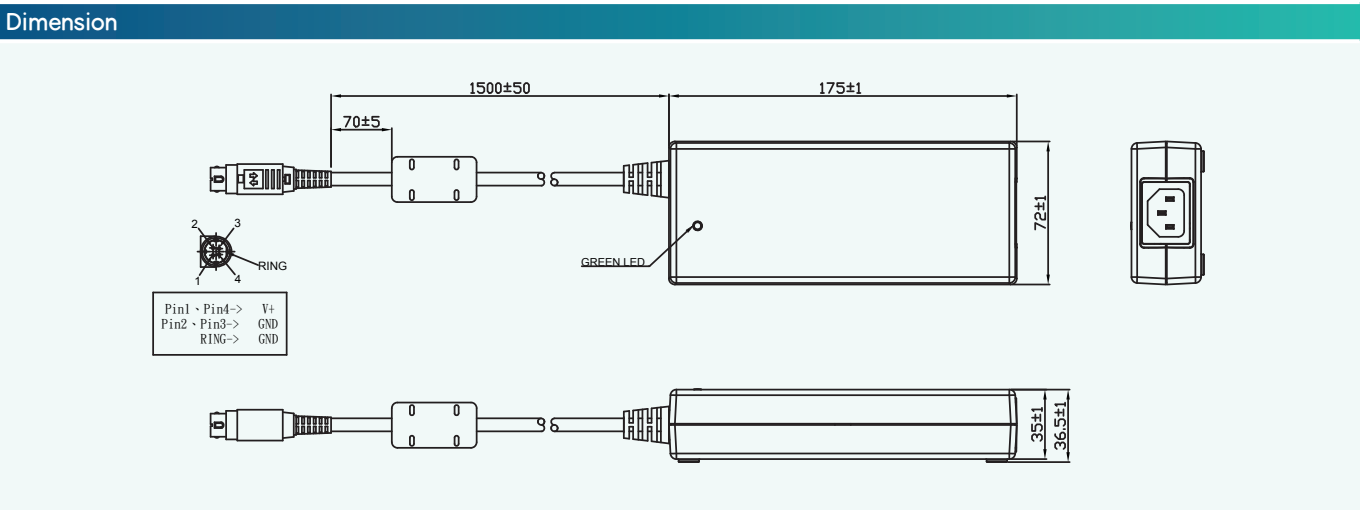
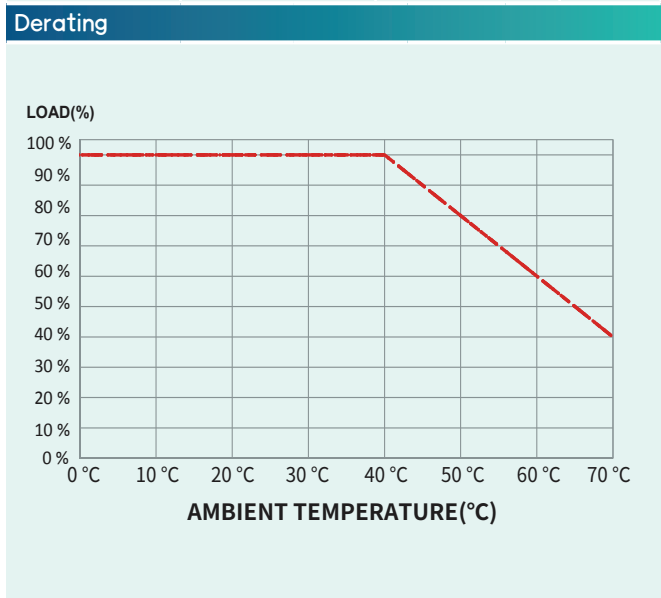
160 Watt AC / DC Desktop Adapter

- ▶ Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ Overvoltage Protection



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	160 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	240mV (max.)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Efficiency	91%(typ.)
Hold-up Time	10 mS (typ.)
Leakage Current	3.5 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	175 x 72 x 36.5 mm
Weight	650g

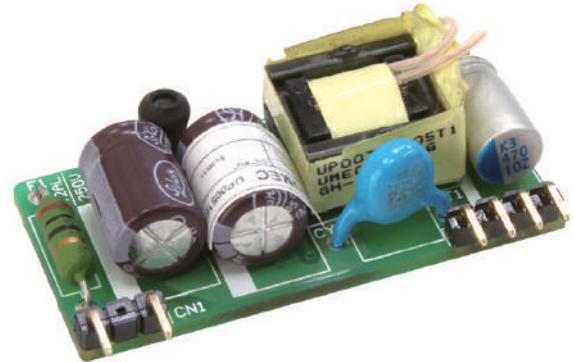
Models			
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UP1601B-24PP	24V	6.67A	89-93 %



UP0051E-XXG Series

5 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 500Khrs
- ▶ RoHS Compliant
- ▶ Meet IEC62368-1 & IEC60950-1(Pending)



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	30 A max. (Cold Start)

Output Specifications

Output Power	5 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	<500 mV max. (for 24.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	3000 VAC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection

Physical Specifications

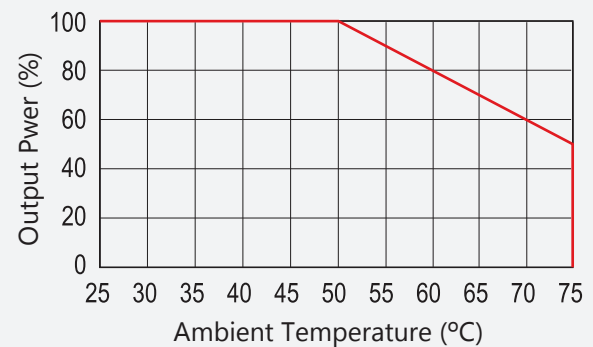
Dimension (Tolerance ±5 mm)	43.4 x 21.1 x 11.2mm
Weight	22g

Models

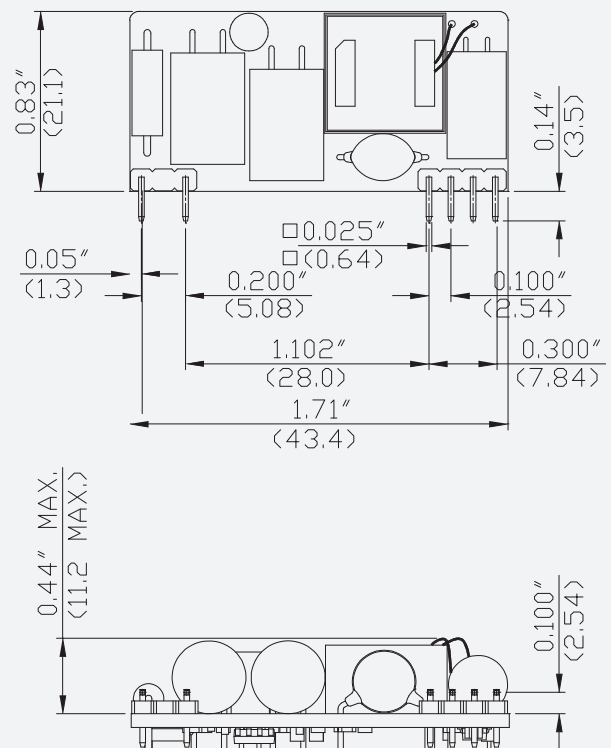
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UP0051E-03	3.3V	1.2A	72.0%
UP0051E-05	5V	1A	75.0%
UP0051E-09	9V	0.55A	75.0%
UP0051E-12	12V	0.42A	76.0%

*Gray words represents under development

Derating



Dimension



UP0051A-XXB Series

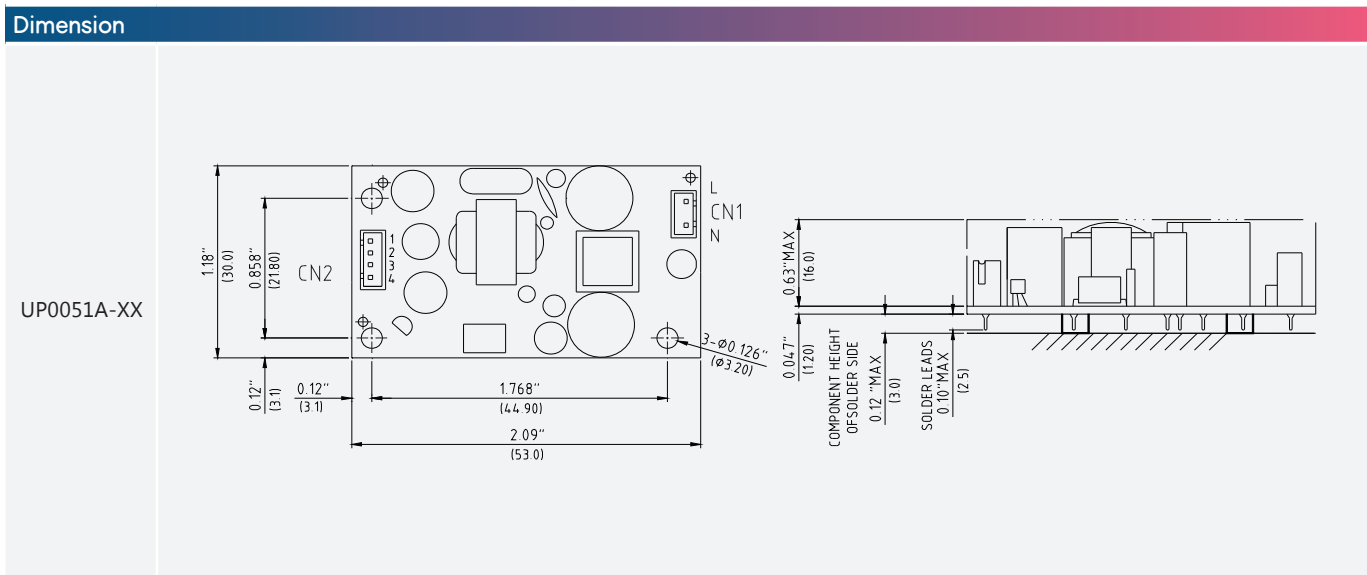
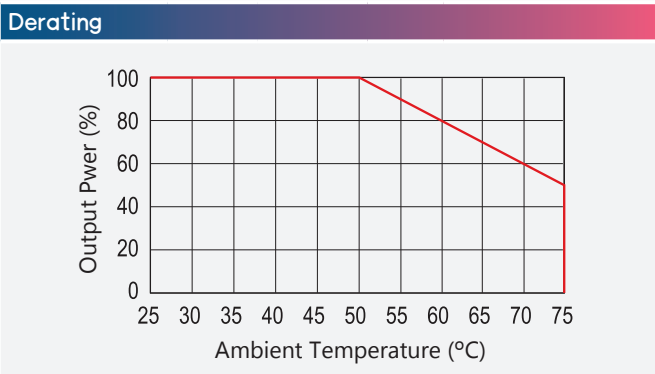
5 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ Designed to Meet UL, CSA, TUV Safety Standards
- ▶ RoHS Compliant



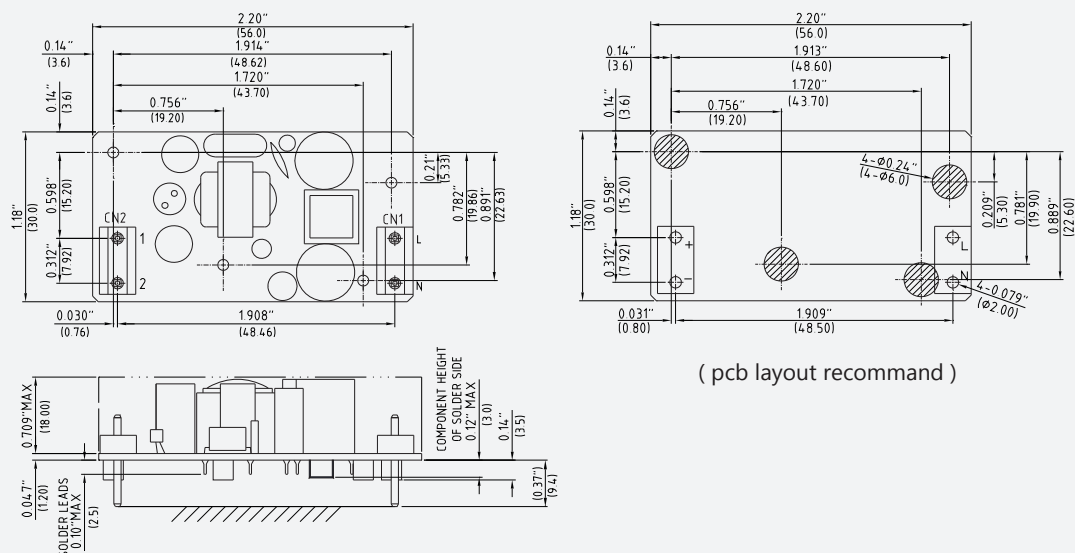
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	30 A max. (Cold Start)
Output Specifications	
Output Power	5 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<500 mV max. (for 24.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 75°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	53.0 x 30.0 x 19.2mm
Weight	40g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0051A-03B	3.3V	1.5A	65.0%	UL, CUL, TUV, CB
UP0051A-05B	5V	1A	70.0%	UL, CUL, TUV, CB
UP0051A-09B	9V	0.56A	70.0%	Pending
UP0051A-12B	12V	0.45A	70.0%	UL, CUL, TUV, CB
UP0051A-15B	15V	0.34A	70.0%	Pending
UP0051A-18B	18V	0.28A	70.0%	Pending
UP0051A-24B	24V	0.21A	70.0%	Pending
UP0051A-48B	48V	0.10A	70.0%	Pending

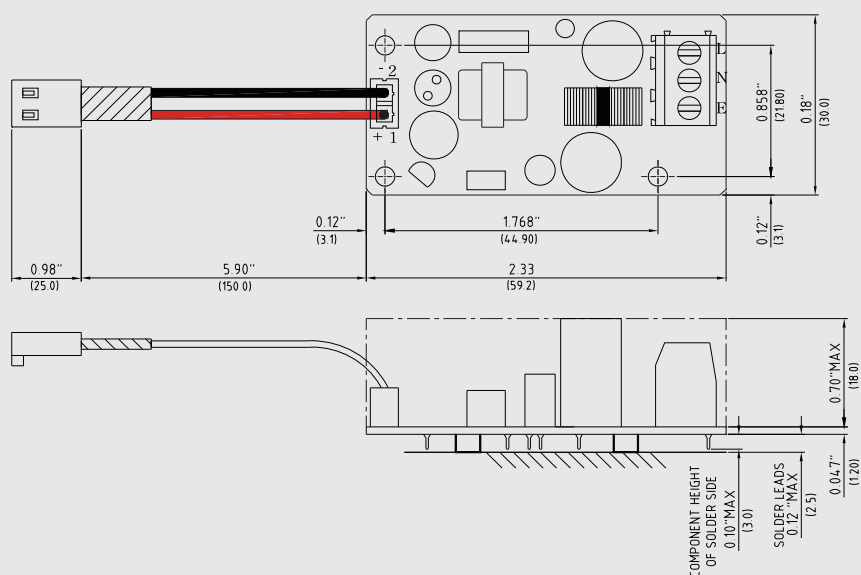


Dimension

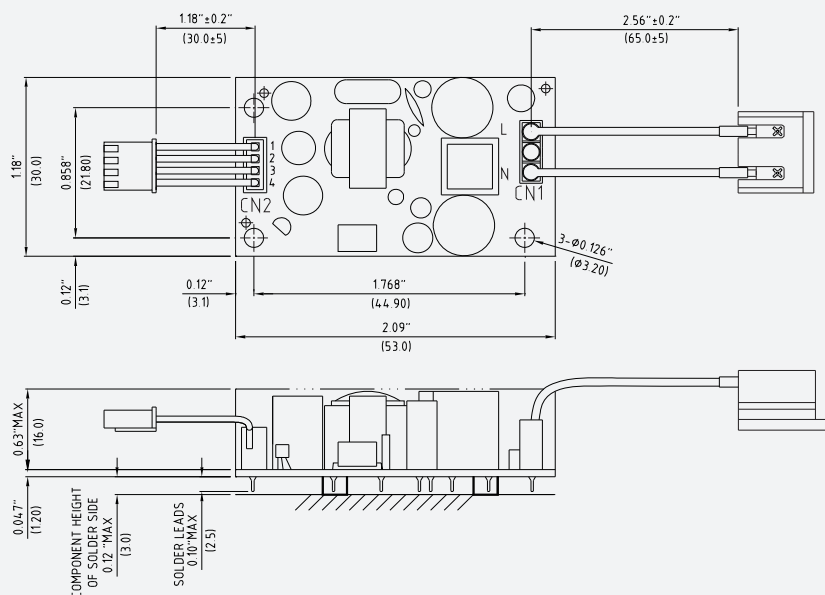
UP0051A-
XXC2



UP0051A-
XXC3



UP0051A-
XXI1

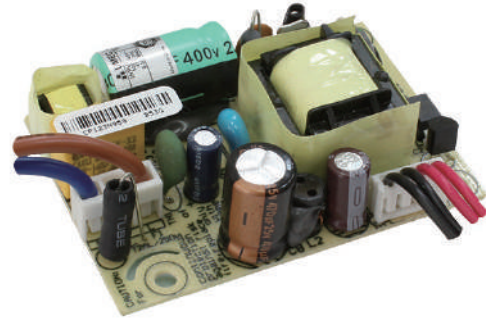


UP0091A-XX BG Series



9 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ Designed to meet UL, CSA, TUV safety standards
- ▶ RoHS Compliant
- ▶ UP0091A - 12B Safety Pending



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	30 A max. (Cold Start)

Output Specifications

Output Power	10 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<120mV max. (for 12.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection

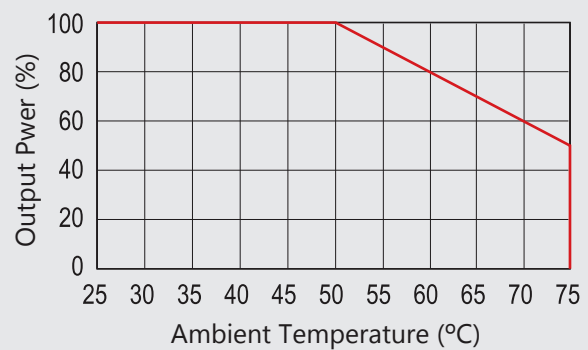
Physical Specifications

Dimension (Tolerance ±5 mm)	60.0 x 42.0 x 18.2 mm
Weight	40g

Models

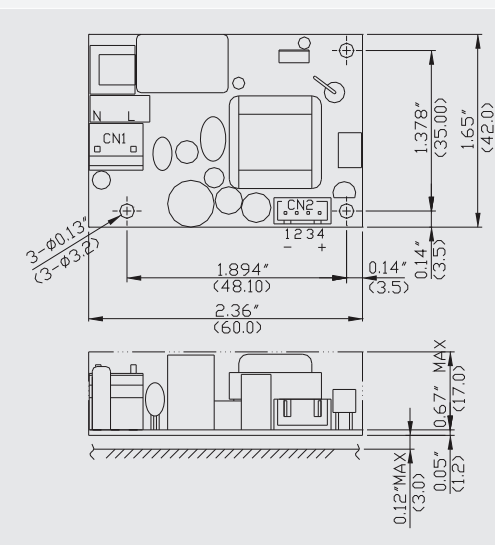
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0091A-03B	3.3V	2.5A	65.0%	UL, CUL, TUV
UP0091A-05B	5V	2A	70.0%	UL, CUL, TUV
UP0091A-12B	12V	0.83A	70.0%	Pending

Derating

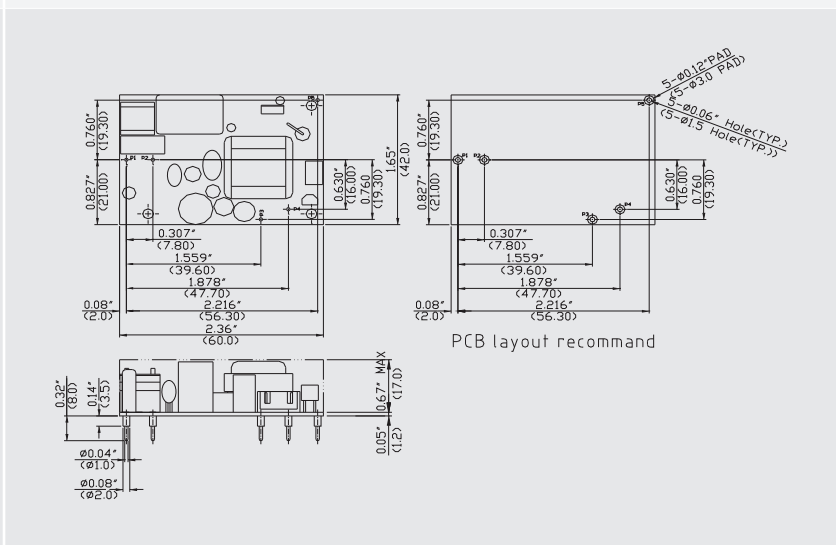


Dimension

UP0091A-XXB



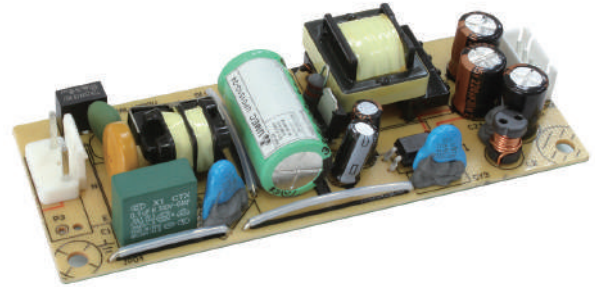
UP0091A-XXBC1



UP0151G-XXG Series

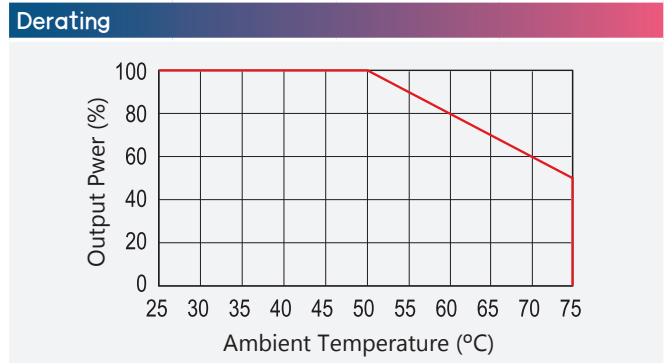
15 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 500Khrs
- ▶ RoHS Compliant
- ▶ Compatible with TDK JBW10W type, and upgrade to 15W
- ▶ All Safety Pending



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	40 A max. (Cold Start)
Output Specifications	
Output Power	15 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<180 mV max. (for 48.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5mm)	95.0 x 36.0 x 17.7 mm
Weight	45g

Models			
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UP0151G-03	3.3V	2.75A	72.0%
UP0151G-05	5V	2.40A	77.0%
UP0151G-09	9V	1.66A	78.0%
UP0151G-12	12V	1.30A	78.0%
UP0151G-15	15V	1.00A	80.0%
UP0151G-18	18V	0.83A	80.0%
UP0151G-24	24V	0.63A	82.0%
UP0151G-48	48V	0.32A	82.0%



Dimension	
UP0151G-XX	UP0151G-XXC1
	pcb layout recommend

UP0201D-XXBG Series

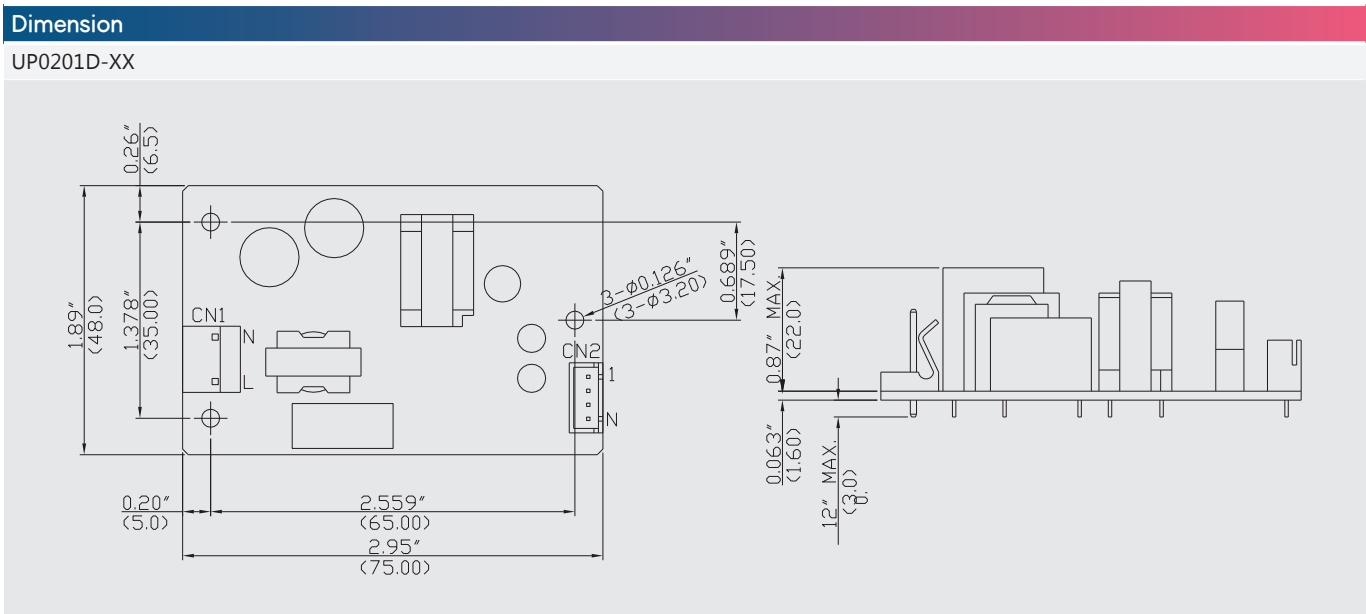
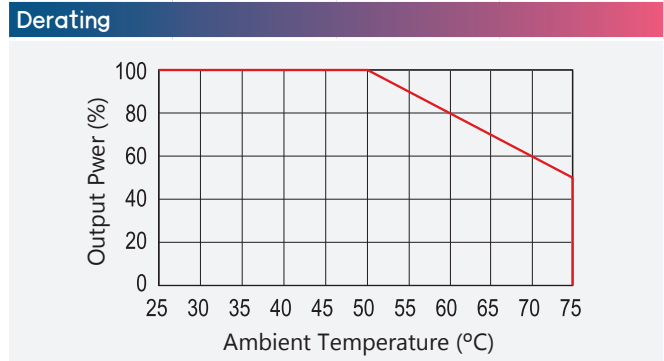
20 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 500Khrs
- ▶ RoHS Compliant
- ▶ All Safety Pending



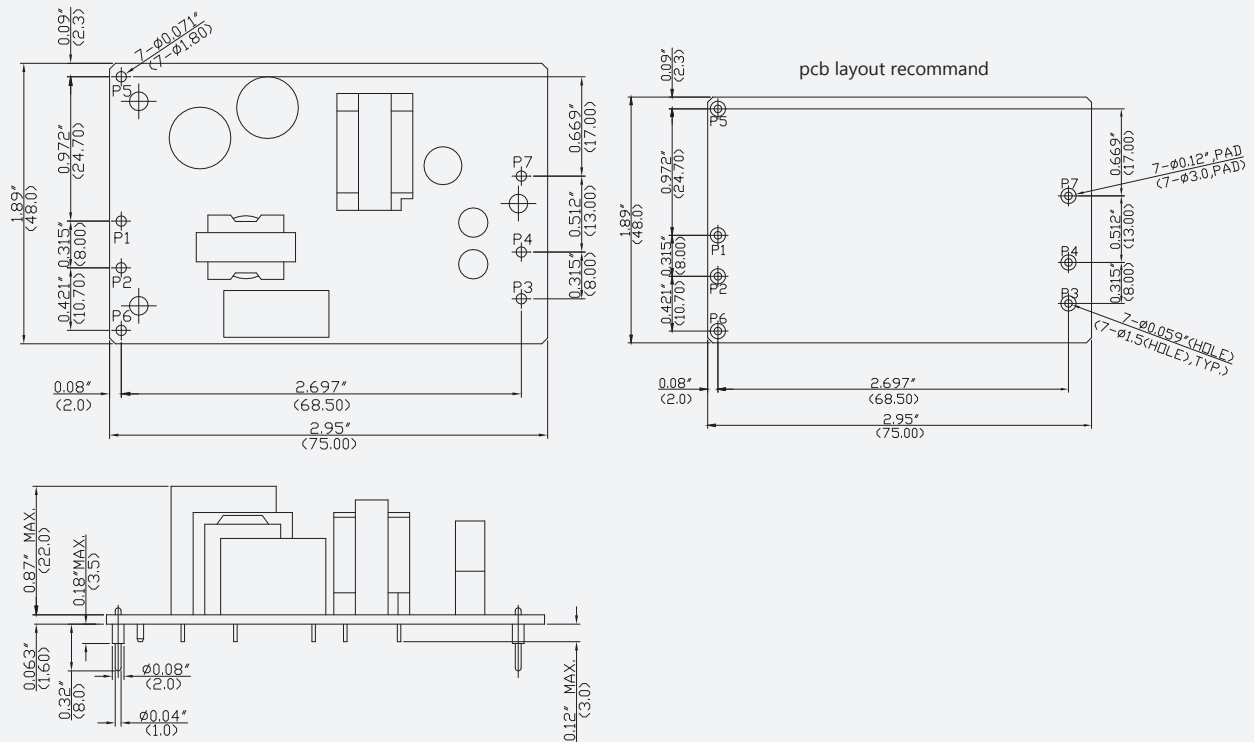
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	30 A max. (Cold Start)
Output Specifications	
Output Power	22 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<480mV max. (for 48.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	75.0 x 48.0 x 26.6 mm
Weight	75g

Models			
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UP0201D-03B	3.3V	4.5A	70.00%
UP0201D-05B	5V	3.5A	75.00%
UP0201D-09B	9V	2.0A	77.00%
UP0201D-12B	12V	1.65A	78.00%
UP0201D-15B	15V	1.35A	80.00%
UP0201D-18B	18V	1.15A	80.00%
UP0201D-24B	24V	0.85A	80.00%
UP0201D-48B	48V	0.45A	82.00%

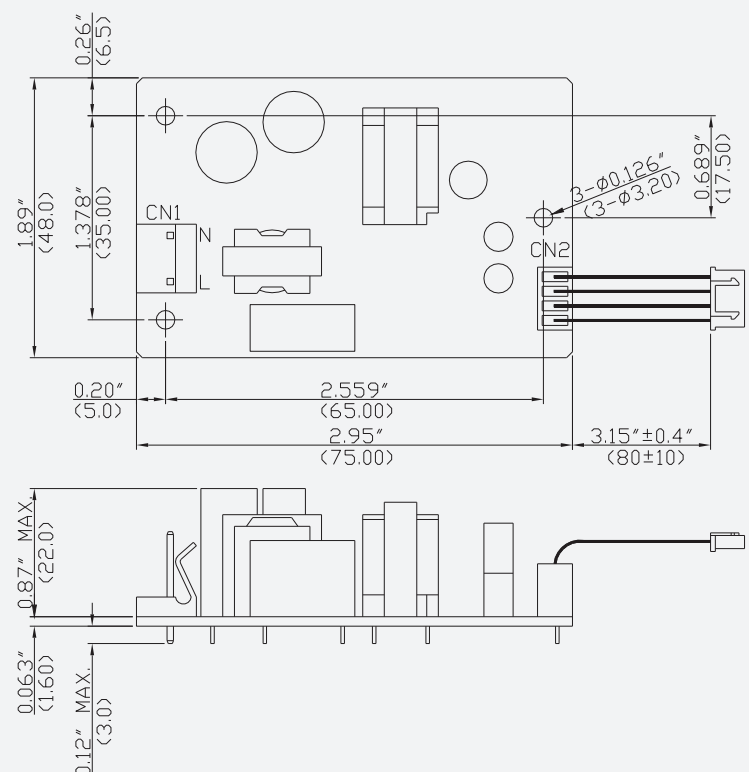


Dimension

UP0201D-XXC1



UP0201D-XXC2

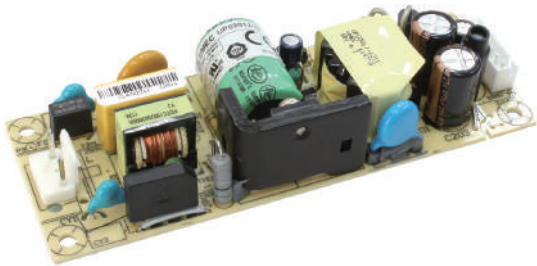


UP0301J-XXG Series



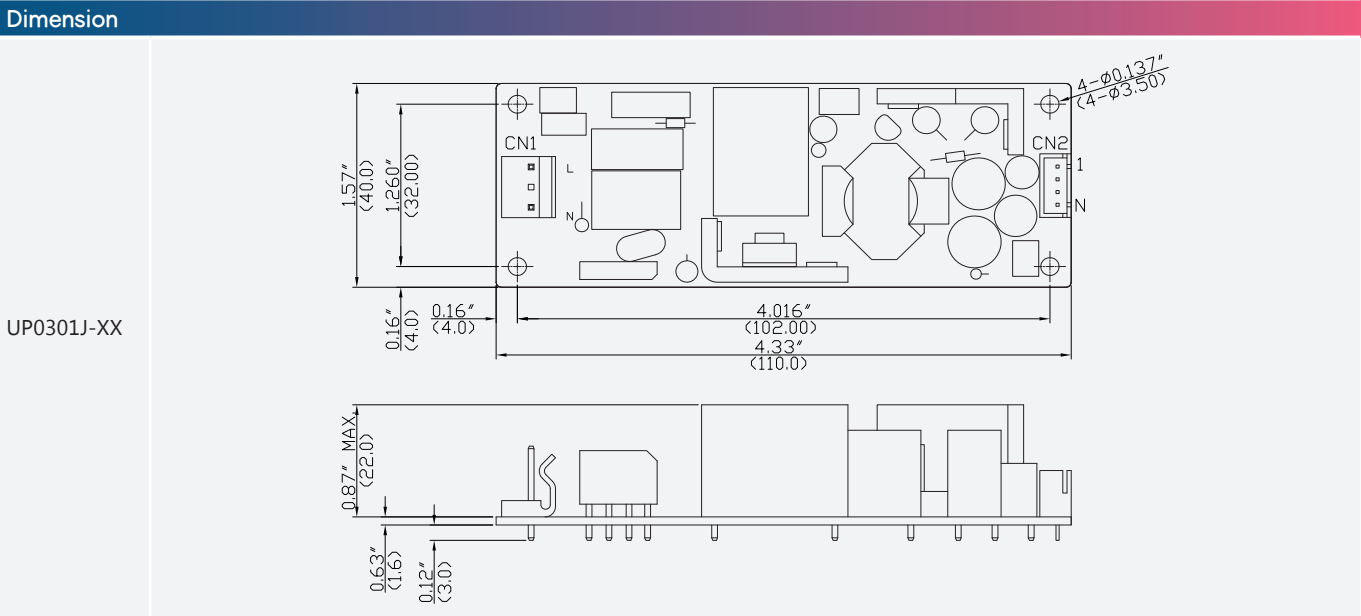
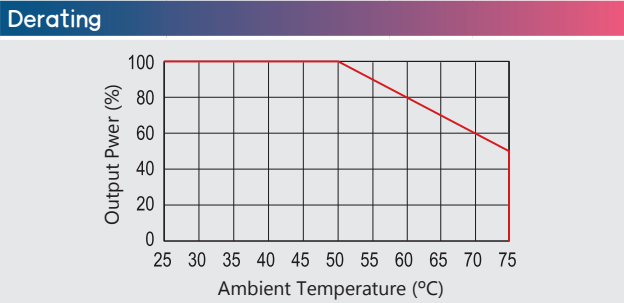
30 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 500Khrs
- ▶ RoHS Compliant
- ▶ UP0301J-05, UP0301J-12, UP0301J-24 safety ready
- ▶ Other models safety pending.



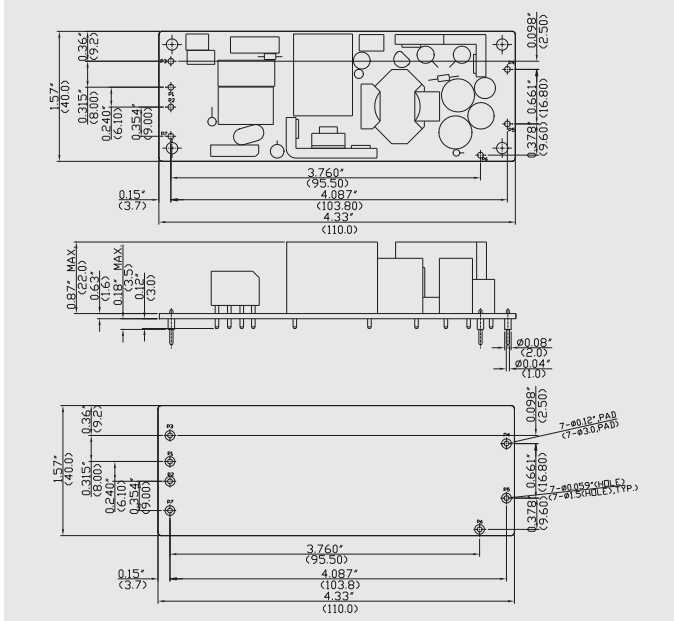
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	80 A max. (Cold Start)
Output Specifications	
Output Power	30 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<540 mV max. (for 54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	110.0 x 40.0 x 26.6 mm
Weight	75g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0301J-03	3.3V	7.0A	70.0%	Pending
UP0301J-05	5V	5.0A	77.0%	UL, CUL, TUV
UP0301J-09	9V	3.22A	80.0%	Pending
UP0301J-12	12V	2.5A	82.0%	UL, CUL, TUV
UP0301J-15	15V	2.0A	82.0%	Pending
UP0301J-18	18V	1.67A	82.0%	Pending
UP0301J-24	24V	1.25A	84.0%	UL, CUL, TUV
UP0301J-48	48V	0.65A	84.0%	Pending
UP0301J-54	54V	0.55A	84.0%	Pending

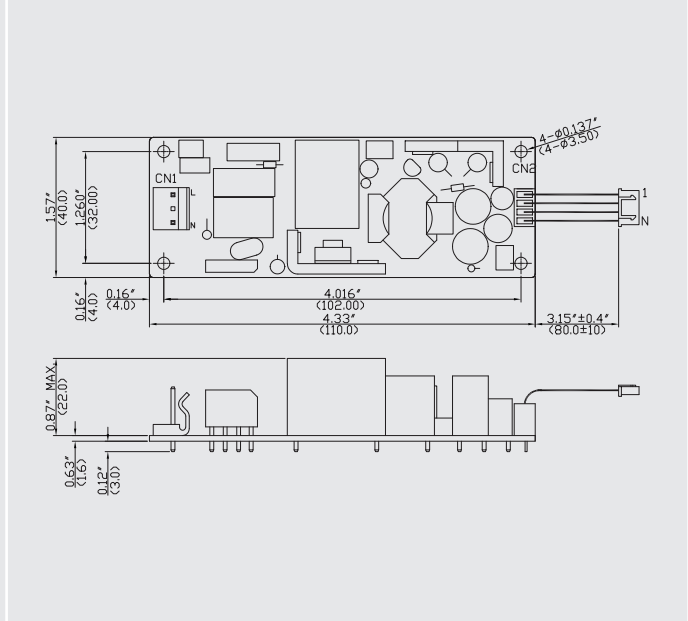


Dimension

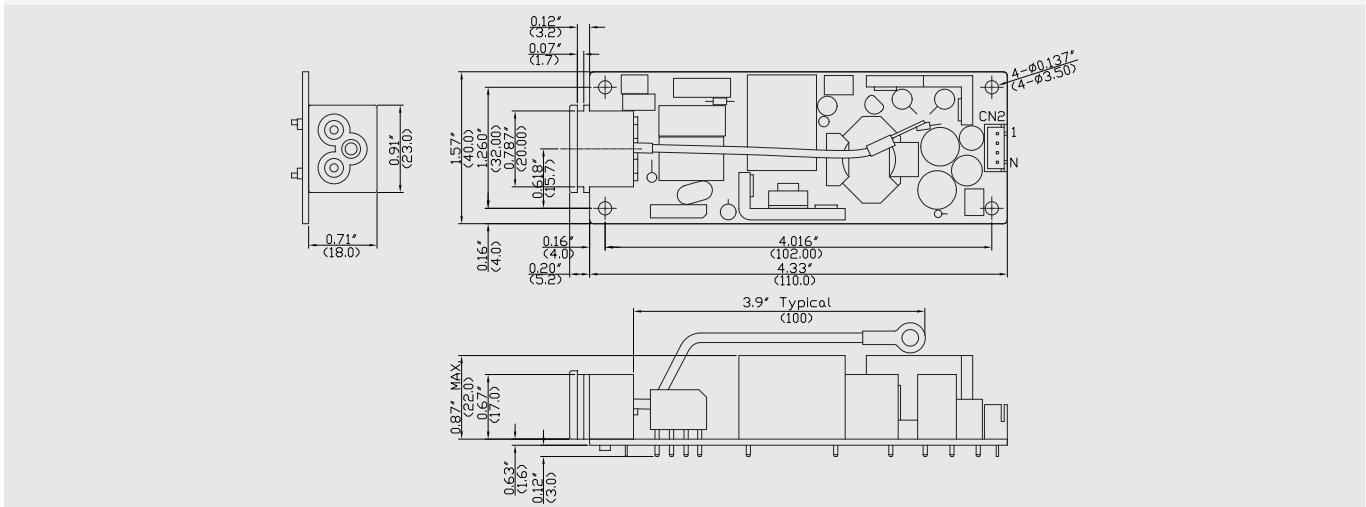
UP0301J-XXC1



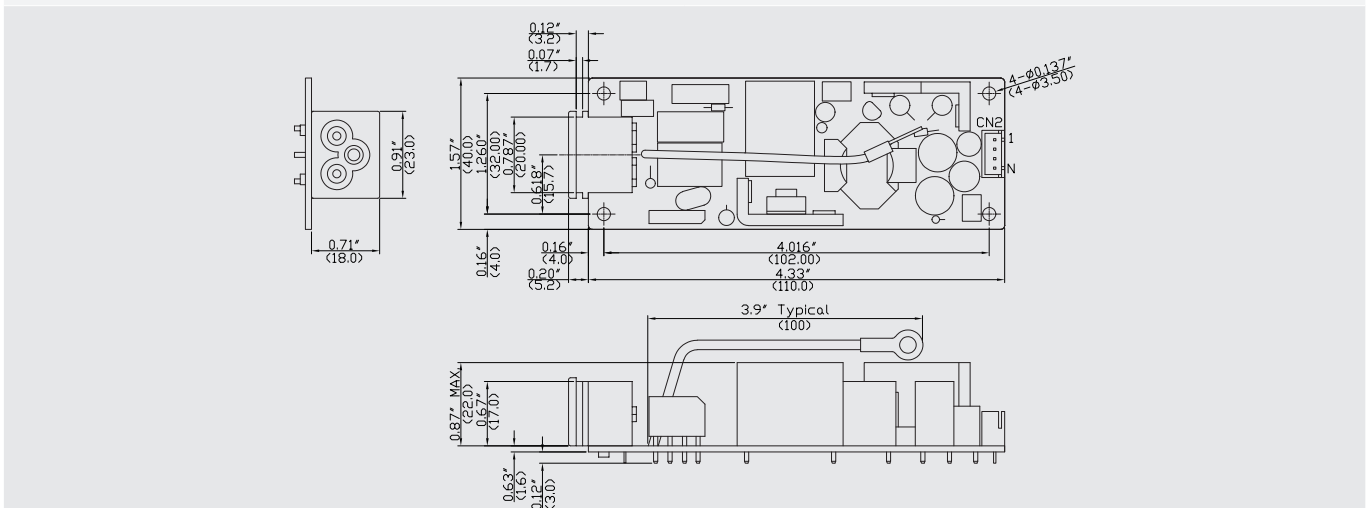
UP0301J-XXC2



UP0301J-XXIG



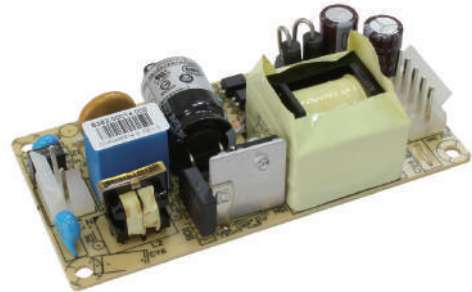
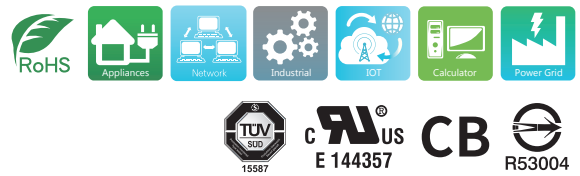
UP0301J-XXIXX



UP0361H-XXG Series

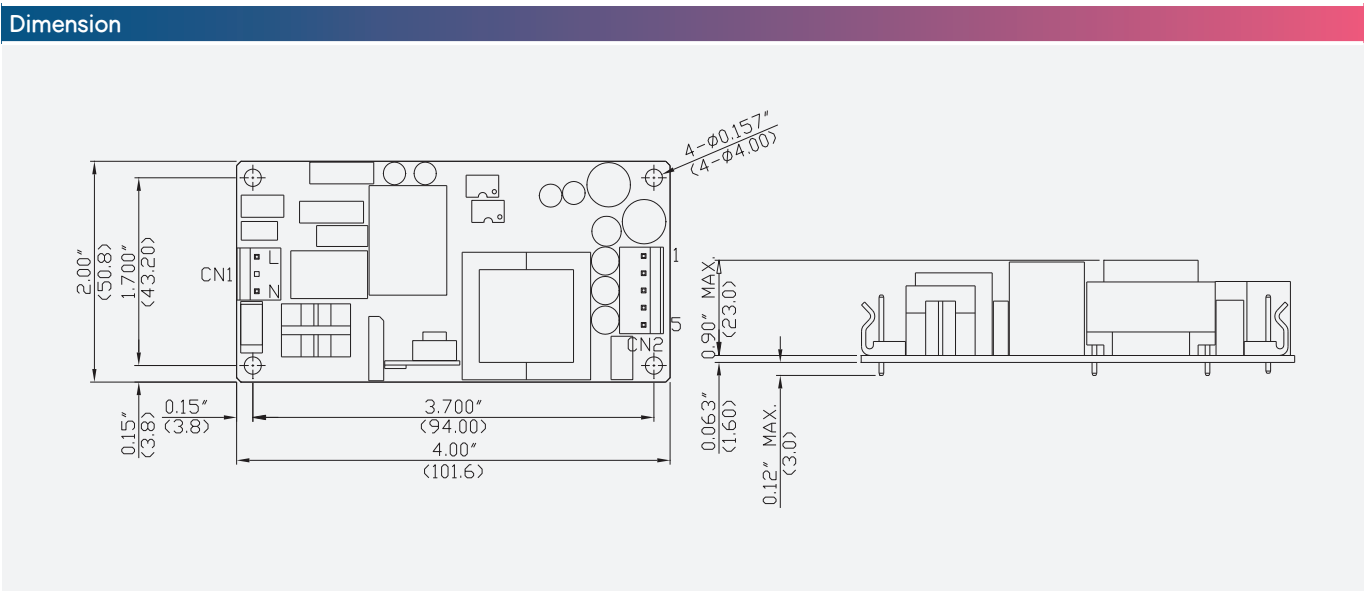
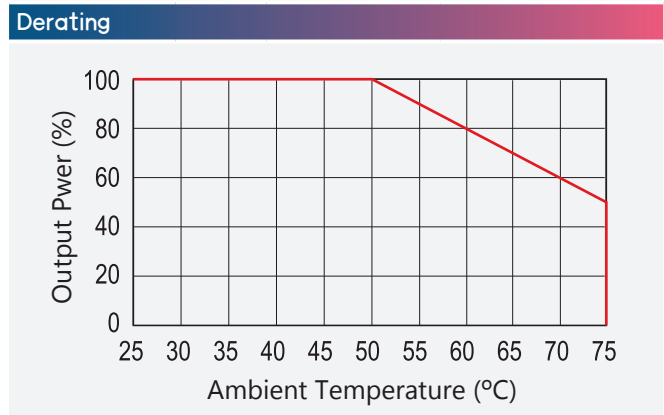
36 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ Designed to meet UL, CSA, TUV safety standards
- ▶ RoHS Compliant
- ▶ UP0361H - 12 safety ready, other models safety pending.



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	40A max.@110VAC (Cold Start) 80A max.@230VAC (Cold Start)
Output Specifications	
Output Power	36 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<540 mV max. (for 54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to +70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	101.6 x 50.8 x 27.6 mm
Weight	150g

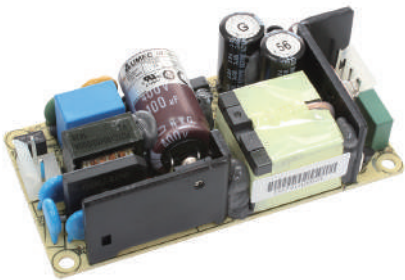
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0361H-12	12V	3.0A	80.0%	UL, CUL, TUV, CB, BSMI
UP0361H-15	15V	2.4A	80.0%	Pending
UP0361H-19	19V	1.9A	80.0%	Pending
UP0361H-24	24V	1.5A	81.0%	Pending
UP0361H-48	48V	0.75A	82.0%	Pending
UP0361H-54	54V	0.66A	82.0%	Pending



UP0601C-XXG Series

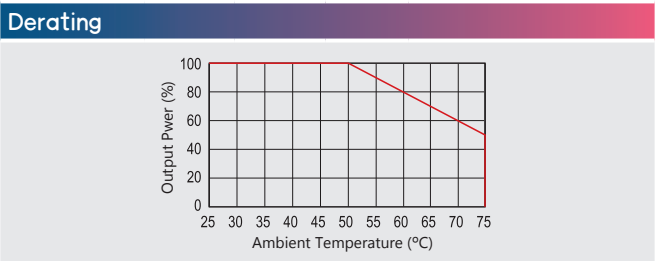
60 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	40A max.@110VAC (Cold Start) 80A max.@230VAC (Cold Start)
Output Specifications	
Output Power	65 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<560 mV max. (for 56.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to +70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection
Physical Specifications	
Dimension (Tolerance ±5 mm)	101.6 x 50.8 x 31.6 mm
Weight	150g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0601C-03	3.3V	8.0A	72.0%	UL, CUL, TUV, CB, CE
UP0601C-05	5V	8.0A	76.0%	UL, CUL, TUV, CB, CE
UP0601C-09	9V	6.0A	80.0%	UL, CUL, TUV, CB, CE
UP0601C-12	12V	5.4A	82.0%	UL, CUL, TUV, CB, CE
UP0601C-15	15V	4.3A	82.0%	UL, CUL, TUV, CB, CE
UP0601C-18	18V	3.6A	82.0%	UL, CUL, TUV, CB, CE
UP0601C-24	24V	2.7A	84.0%	UL, CUL, TUV, CB, CE
UP0601C-29	29V	2.2A	84.0%	UL, CUL, TUV, CB, CE
UP0601C-48	48V	1.35A	84.0%	UL, CUL, TUV, CB, CE
UP0601C-54	54V	1.2A	84.0%	UL, CUL, TUV, CB, CE
UP0601C-56	56V	1.16A	84.0%	UL, CUL, TUV, CB, CE

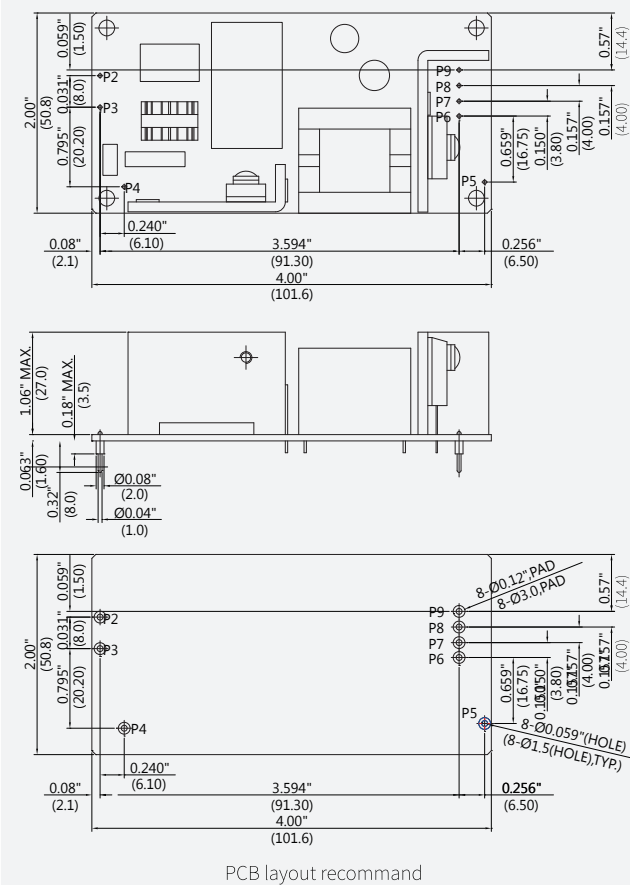


UP0601C-XX

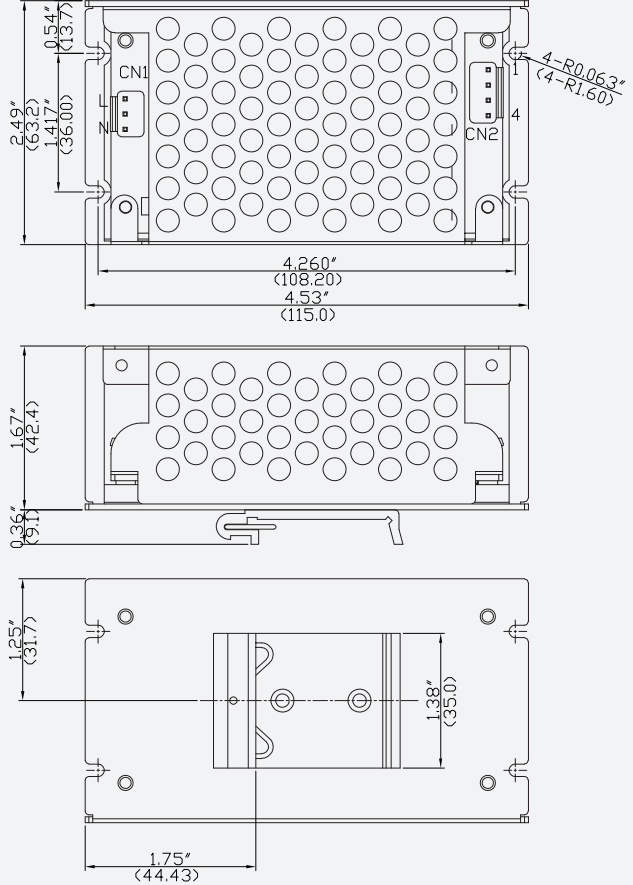
UP0601C-XXE

Dimension

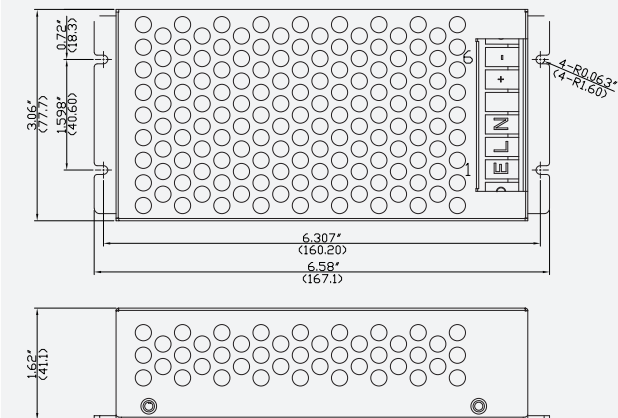
UP0601C-XXC1



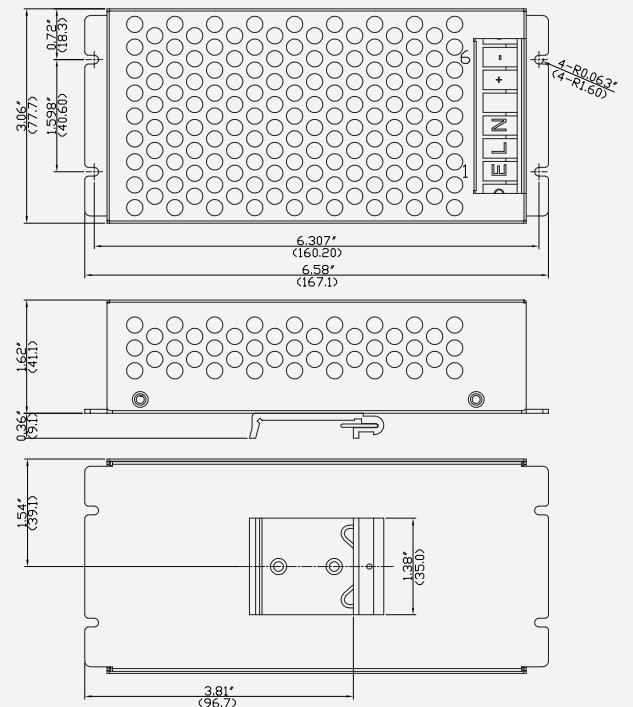
UP0601C-XXED



UP0601C-XXT



UP0601C-XXTD



UP0651J-XXG Series

40-65 Watt AC/DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant
- ▶ Meet IEC60601-1 & EN60601-1
- ▶ Meet IEC62368-1 & IEC60950-1



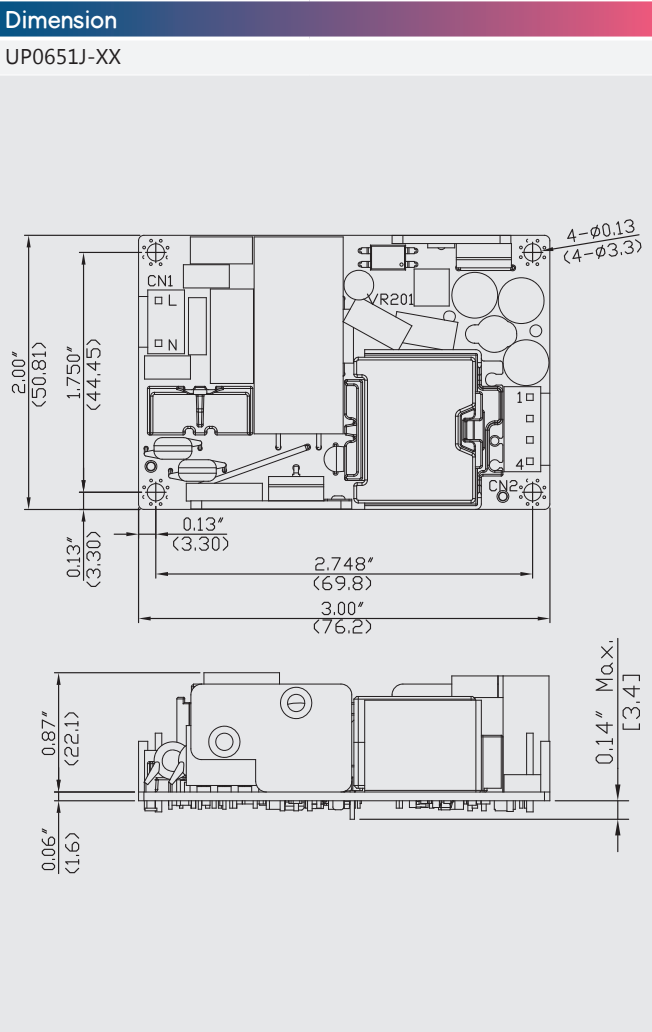
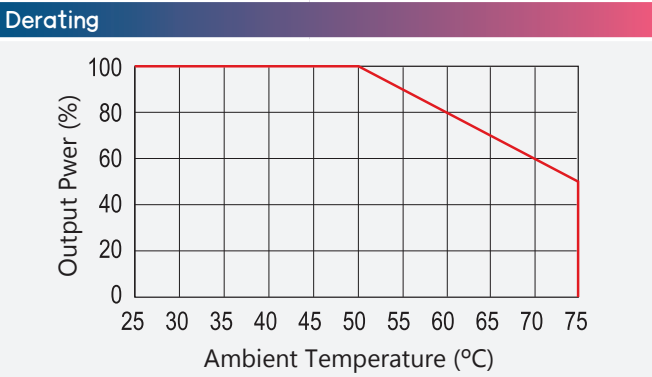
Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	40A max.@110VAC (Cold Start) 80A max.@230VAC (Cold Start)

Output Specifications	
Output Power	40-65 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<560 mV max. (for 56.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	0.3 mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	-40 to +85°C (with derating)
Storage Temperature	-40 °C to + 70 °C
Humidity	0 to 95 % RH
Cooling	Free - Air Convection

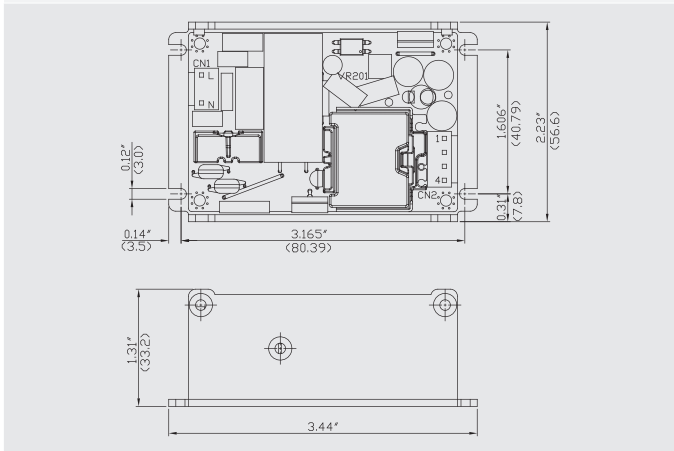
Physical Specifications	
Dimension (Tolerance ±5 mm)	76.2 x 50.8 x 22.1 mm
Weight	105g

Models			
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UP0651J-05	5V	8A	84.0%
UP0651J-12	12V	5.4A	90.0%
UP0651J-24	24V	2.7A	90.0%
UP0651J-48	48V	1.35A	91.0%
UP0651J-56	56V	1.16A	91.0%

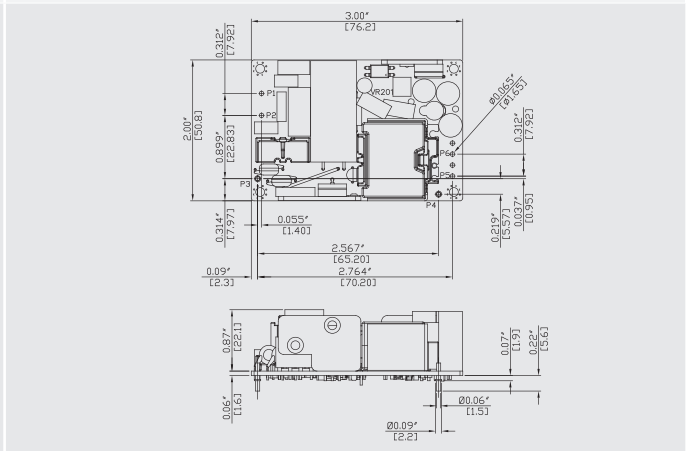


Dimension

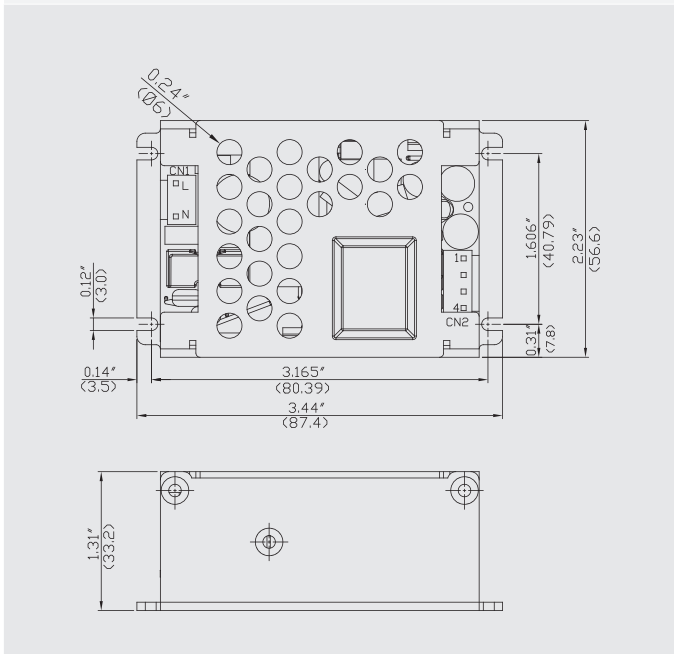
UP0651J-XXU



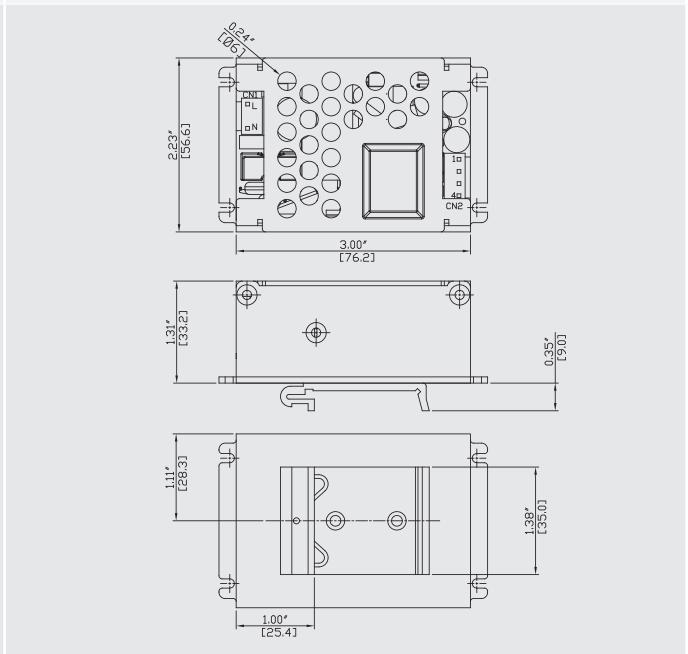
UP0651J-XXM



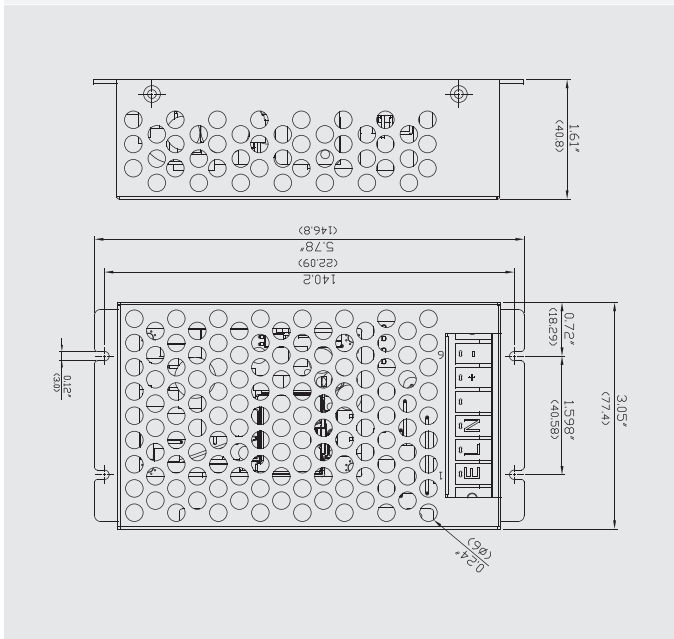
UP0651J-XXE



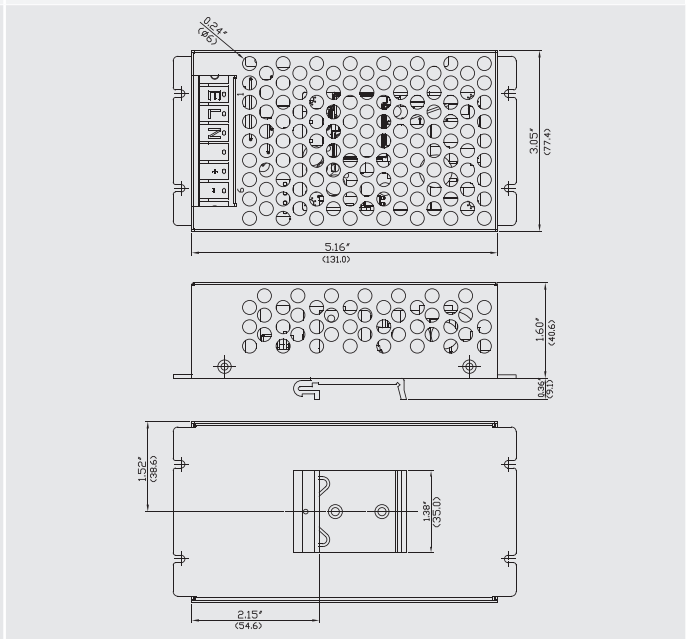
UP0651J-XXED



UP0651J-XXT



P0651J-XXTD



UP0601F-XXG Series

60 Watt AC/DC Open Frame

- ▶ Long Life
- ▶ Operating Temperature up to 85°C
- ▶ Operating altitude range 5000 meters
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ RoHS Compliant



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	150A max.@230VAC(Cold Start)

Output Specifications

Output Power	60 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	<200mV max. (for 12.0Vdc) <300mV max. (for 54.0Vdc)
Temperature Coefficient	±0.03% / °C (max.)
Short Circuit Protection	Continuous

Physical Specifications

Dimension (Tolerance ±5 mm)	120 x 56 x 32 mm
Weight	220 g

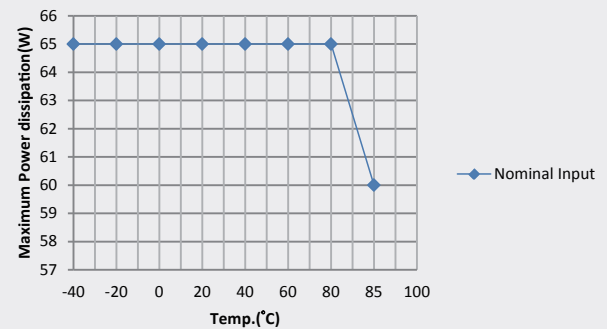
Models

Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP0601F-12	12V	5A	91.0%	FCC, CUL, TUV, CE
UP0601F-54	54V	1.1A	92.0%	FCC, CUL, TUV, CE

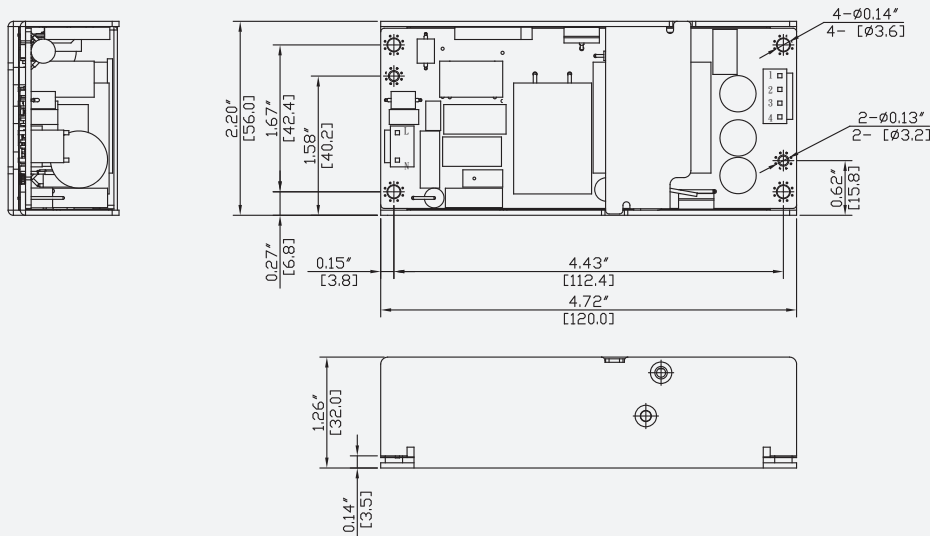
General Specifications

Hold-up Time	10 mS (typ.)
Leakage Current	3mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-40°C to +85°C (with derating)
Storage Temperature	-40 °C to + 85°C
Humidity	10 to 90% RH
Cooling	Natural Cooling

Derating



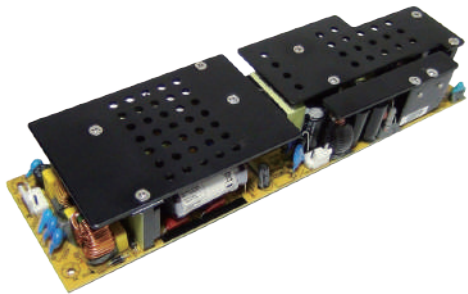
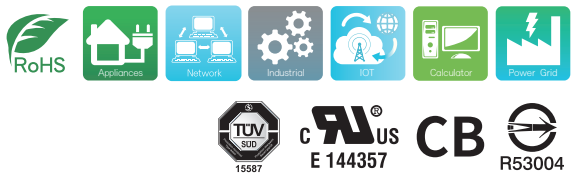
Dimension



UP1001B-XXG Series

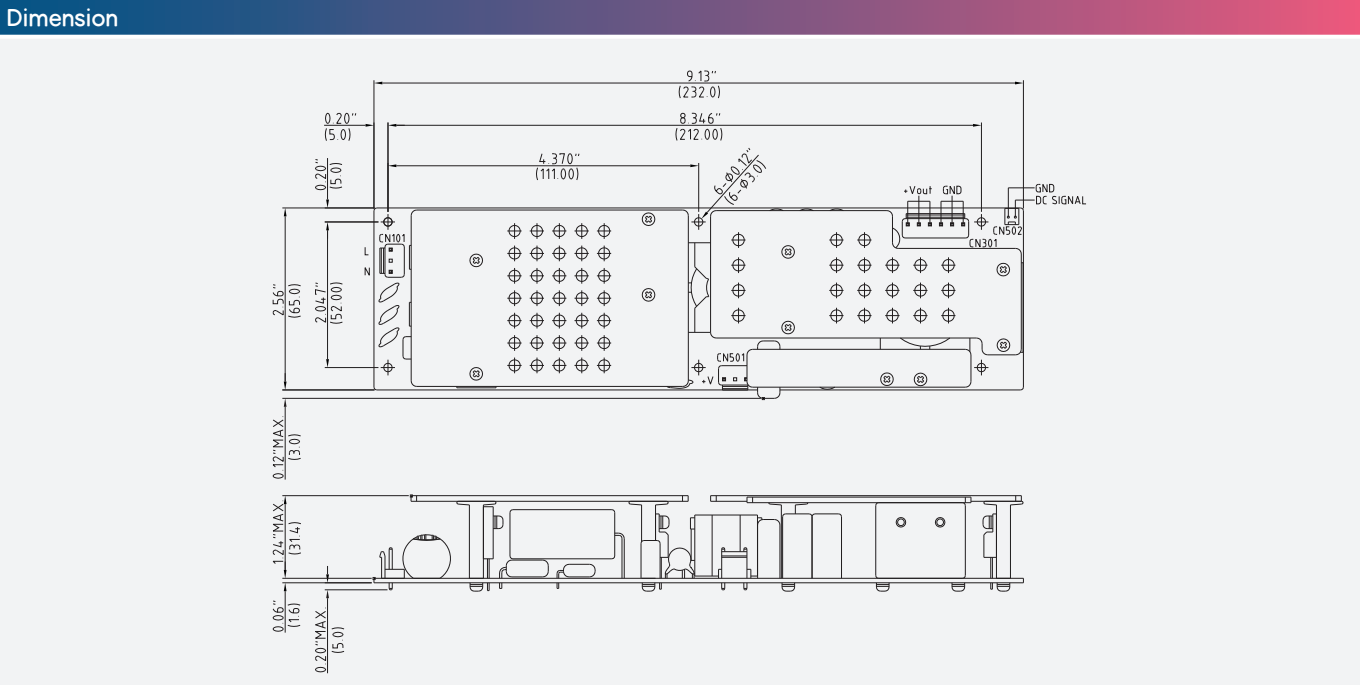
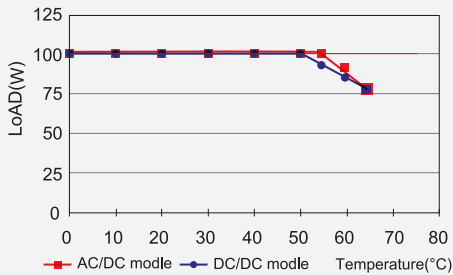
100 Watt Dual AC / DC Input

- ▶ AC Input 90 to 264
- ▶ DC Input 36 to 75
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 100Khrs
- ▶ RoHS Compliant



Input Specifications	
Input Voltage	90 - 264 VAC 36 - 75 VDC
Frequency	47 - 63 Hz
Inrush Current	40 A max.@AC (Cold Start 25 DegC)
Output Specifications	
Output Power	100 Watt
Output Current	1A min.
Ripple & Noise	100 mV
Short Circuit Protection	Continuous or Latch
General Specifications	
Hold-up Time	25 mS (typ.)
Leakage Current	2 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-20 to +65 °C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	10 to 95 % RH
Cooling	Forced Air Cooling with 15CFM/600LFM fan

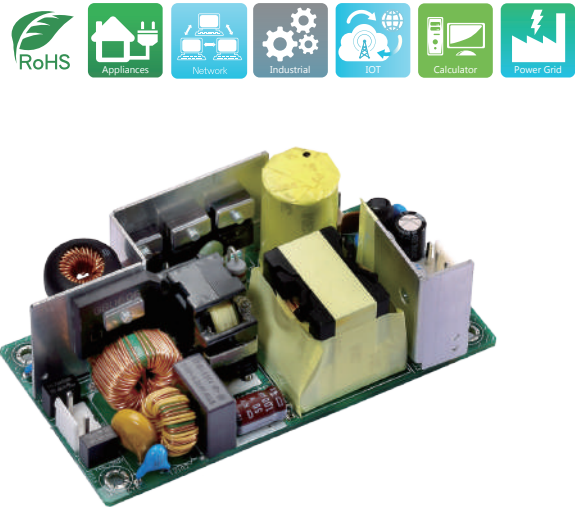
Physical Specifications				
Dimension (Tolerance ±5 mm)		232.0 x 65.0 x 38 mm		
Weight		460g		
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP1001B-12	12V	8.3	78.0%	UL, CUL, CB,TUV
UP1001B-13	13.5V	7.5	80.0%	UL, CUL, CB,TUV
UP1001B-14	14V	7.14	80.0%	BSMI,CB,TUV
Derating				



UP1302C-XXG Series

130 Watt AC / DC Open Frame

- ▶ 2" x 4" Compact size
- ▶ Universal Input 90 to 264 VAC
- ▶ Protections: Short Circuit/ Overvoltage/ Over Temperature
- ▶ No load power consumption < 0.5W
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ High efficiency up to 90% @230VAC
- ▶ All safety approvals are pending



Input Specifications

Input Voltage	90-264VAC
Frequency	47-63 Hz
Inrush Current	40A max.@110 VAC (Cold Start) 80A max.@230 VAC (Cold Start)

Output Specifications

Output Power	130 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<540 mV max. (for 54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

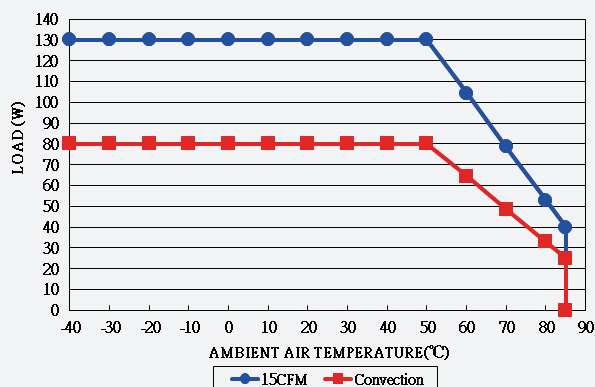
General Specifications

Hold-up Time	20mS (typ.)
Leakage Current	1 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-40 °C to + 85 °C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Forced Air Cooling with 15CFM fan

Physical Specifications

Dimension (Tolerance ±5 mm)	105.6 x 54.8 x 37.6 mm
Weight	190g

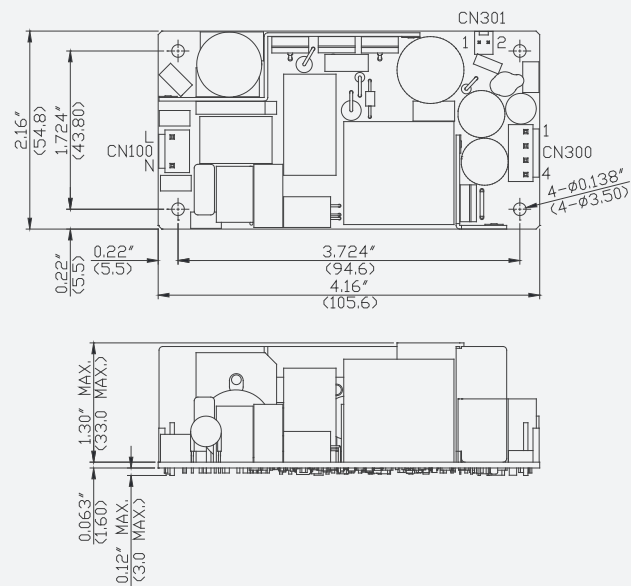
Derating



Models

Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. @230VAC (% TYP)
UP1302C-12	12V	10.83	90.0%
UP1302C-24	24V	5.42	90.0%
UP1302C-48	48V	2.7	91.0%
UP1302C-54	54V	2.4	91.0%

Dimension



UP1501D-XXG Series

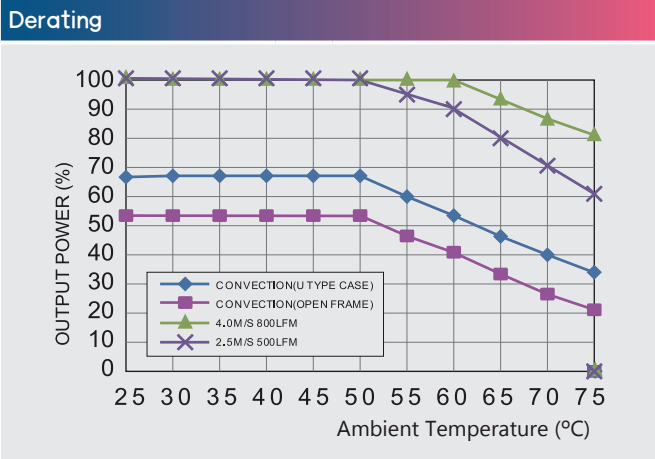
150 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant
- ▶ UP1501D-15, UP1501D-19 safety pending.

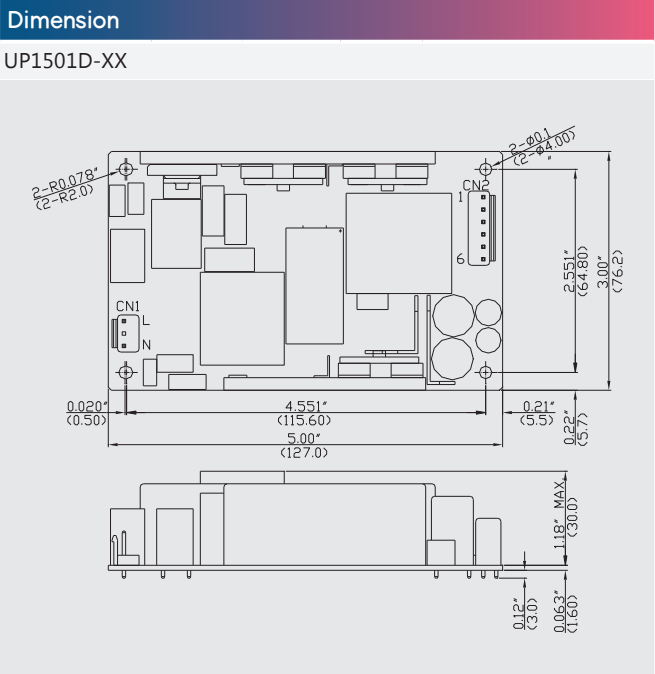


Input Specifications	
Input Voltage	90-264VAC
Frequency	47-63 Hz
Inrush Current	65A max.@110 VAC (Cold Start) 130A max.@230 VAC (Cold Start)
Output Specifications	
Output Power	150 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<560mV max. (for 56.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Forced Air Cooling with 15CFM / 600LFM fan

Physical Specifications	
Dimension (Tolerance ±5 mm)	127.0 x 76.2 x 34.6 mm
Weight	305g 405g @ U-HS type

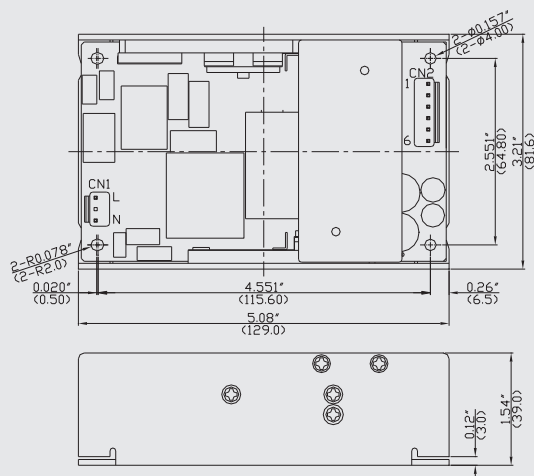


Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP1501D-12	12V	12.5A	82.0%	UL, CUL, TUV, CB, BSMI
UP1501D-15	15V	10.0A	84.0%	Pending
UP1501D-19	19V	7.9A	84.0%	Pending
UP1501D-24	24V	6.3A	86.0%	UL, CUL, TUV, CB, CE
UP1501D-48	48V	3.2A	86.0%	UL, CUL, TUV, CB, CE
UP1501D-52	52V	2.9A	86.0%	UL, CUL, TUV, CB, BSMI
UP1501D-53	53V	2.83A	86.0%	UL, CUL, TUV, CB, BSMI
UP1501D-54	54V	2.78A	86.0%	UL, CUL, TUV, CB, CE
UP1501D-55	55V	2.72A	86.0%	UL, CUL, TUV, CB, BSMI
UP1501D-56	56V	2.7A	86.0%	UL, CUL, TUV, CB, BSMI

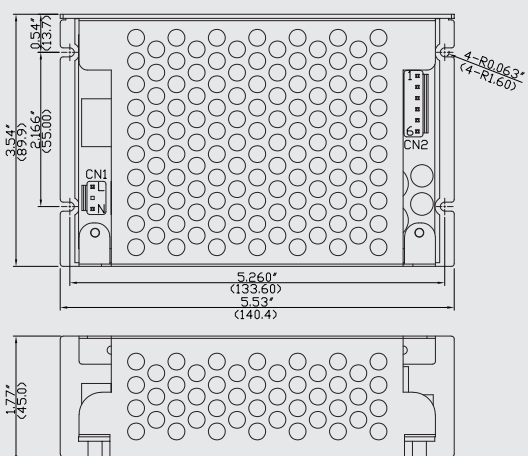


Dimension

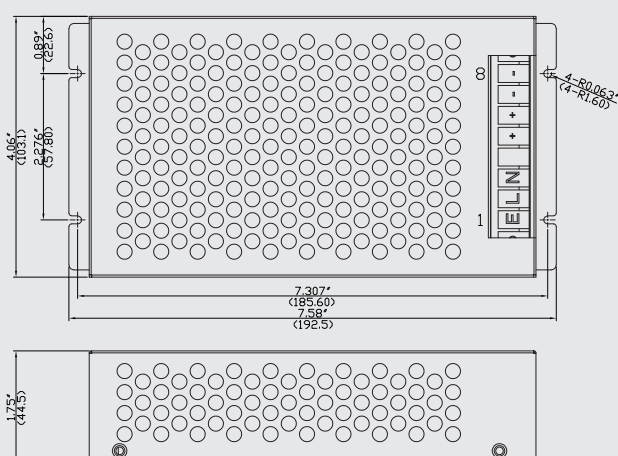
UP1501D-XXC1



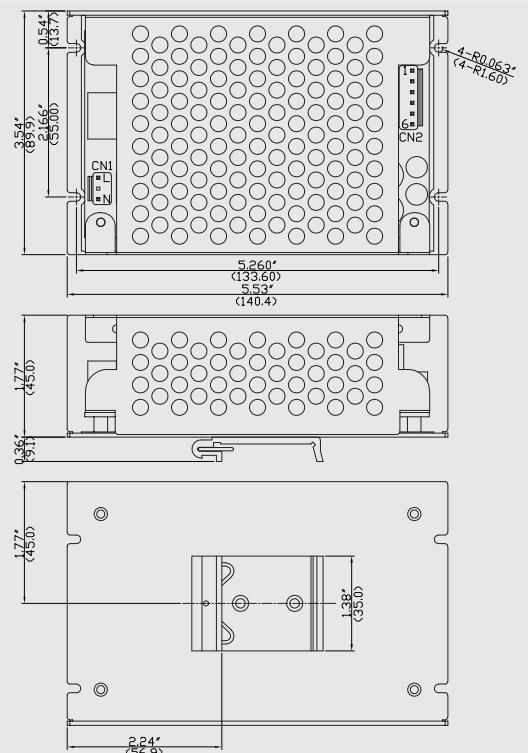
UP1501D-XXE



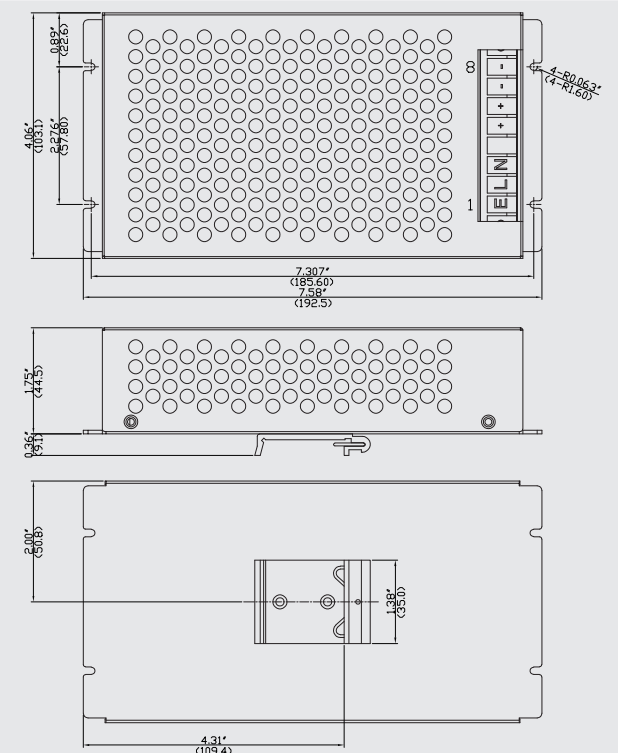
DUP1501D-XXT



UP1501D-XXED



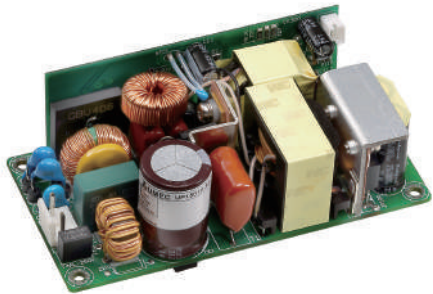
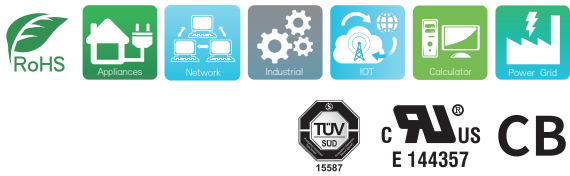
UP1501D-XXTD



UP1501H-XXG Series

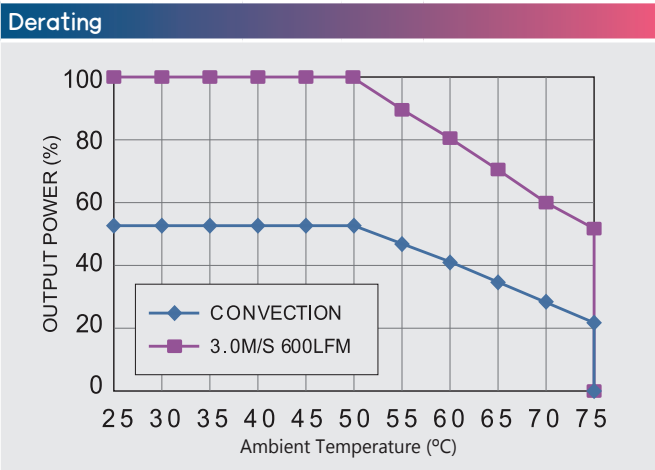
150 Watt AC / DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant



Input Specifications	
Input Voltage	90 - 264VAC
Frequency	47 - 63 Hz
Inrush Current	40A max.@110 VAC (Cold Start) 80A max.@230 VAC (Cold Start)
Output Specifications	
Output Power	150 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<540mV max. (for 54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	0 to + 70°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Forced Air Cooling with 20 CFM fan
Physical Specifications	
Dimension (Tolerance ±5 mm)	101.6 x 50.8 x 34.6 mm
Weight	200g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP1501H-12	12V	12.5A	91.0%	UL, CUL, TUV, CB
UP1501H-15	15V	10.0A	91.0%	UL, CUL, TUV, CB
UP1501H-24	24V	6.25A	92.0%	UL, CUL, TUV, CB
UP1501H-48	48V	3.125A	92.0%	UL, CUL, TUV, CB
UP1501H-54	54V	2.78A	92.0%	UL, CUL, TUV, CB



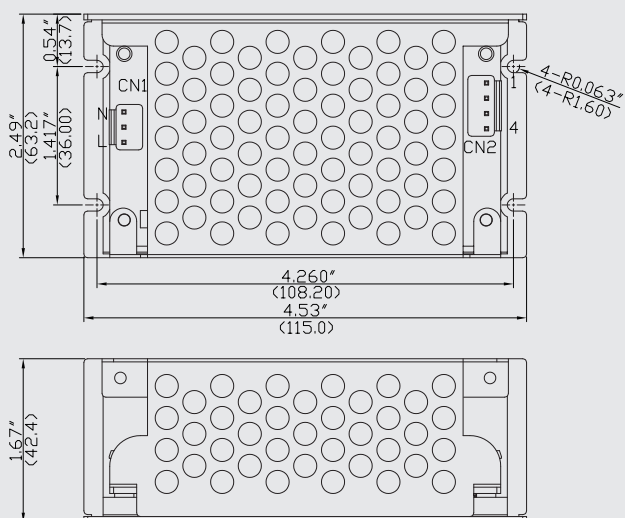
Dimension

UP1501H-XX

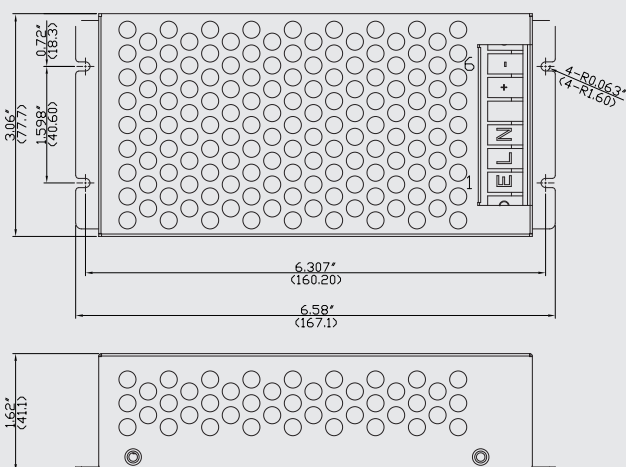
The Pad put on the soldering side (25×45×2mm)

Dimension

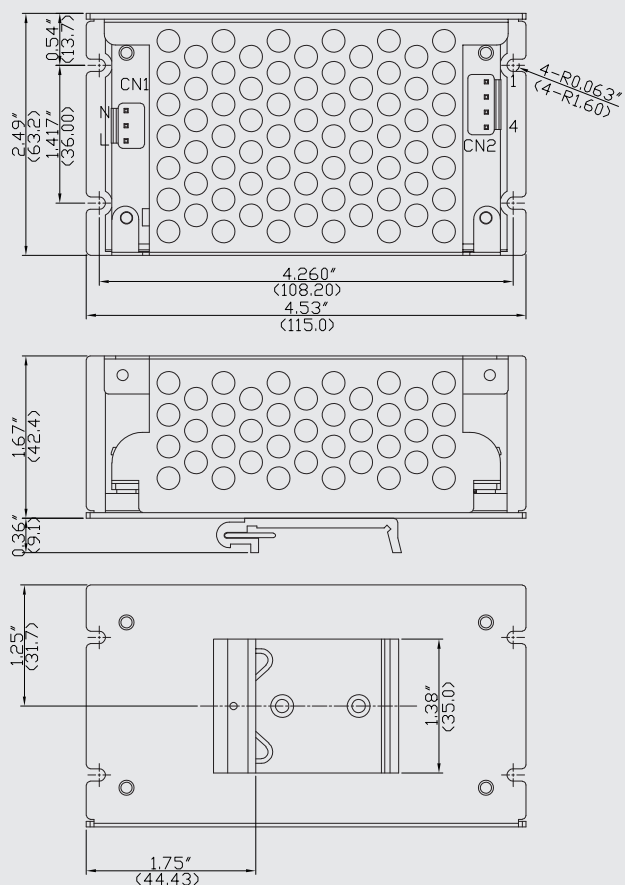
UP1501H-XXE



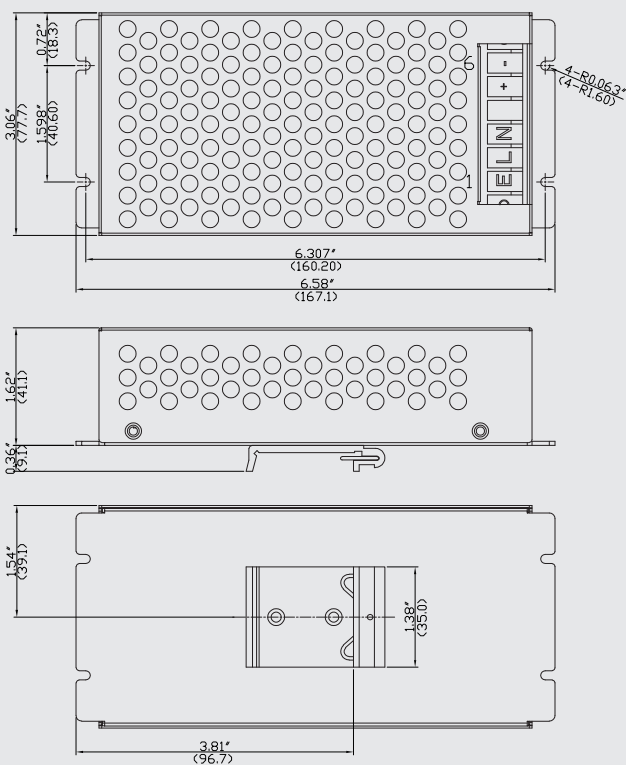
UP1501H-XXT



UP1501H-XXED



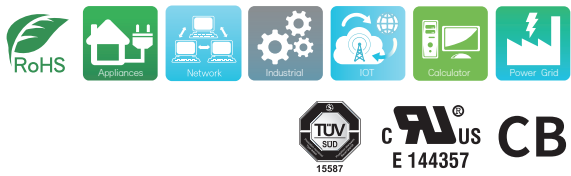
UP1501H-XXTD



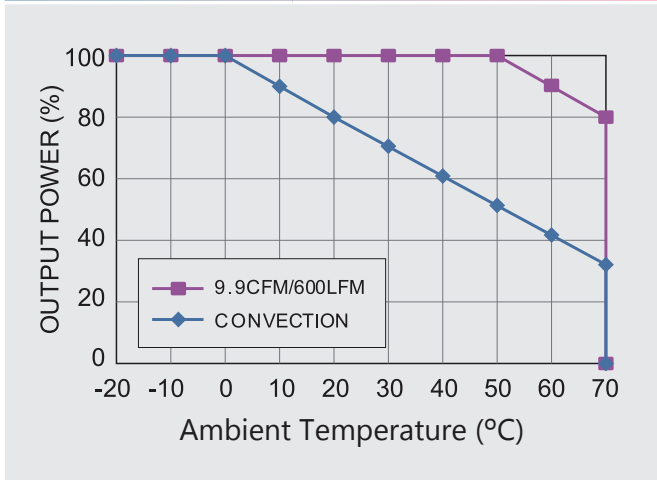
UP2501C-XXG Series

250 Watt AC / DC Open Frame

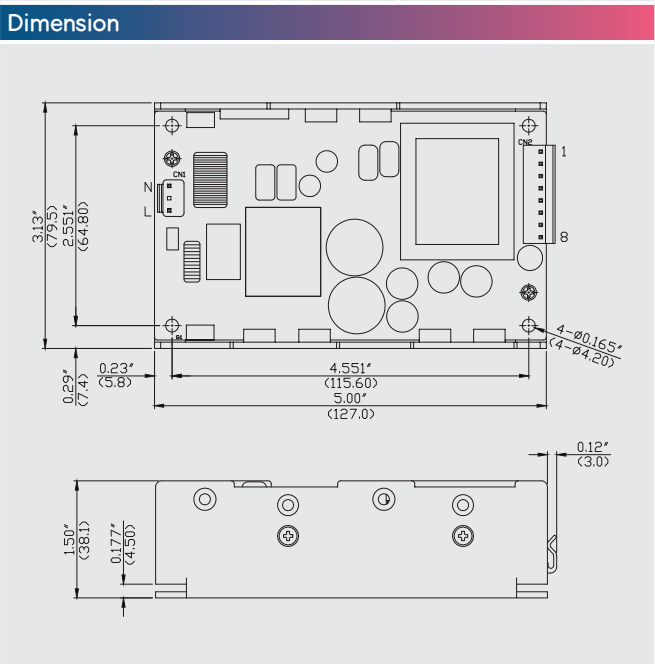
- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant
- ▶ Active Power Factor Correction for IEC1000-3-2 Compliance



Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	65A max.@110 VAC (Cold Start) 130A max.@230 VAC (Cold Start)
Output Specifications	
Output Power	250 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<560 mV max. (for 56.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous or Latch
General Specifications	
Hold-up Time	5 mS (typ.)
Leakage Current	0.75 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-25 to + 65°C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	0 to 95 % RH
Cooling	Forced Air Cooling with 9.9 CFM / 600 LFM fan
Physical Specifications	
Dimension (Tolerance ±5 mm)	127.0 x 79.5 x 38.1 mm
Weight	465g



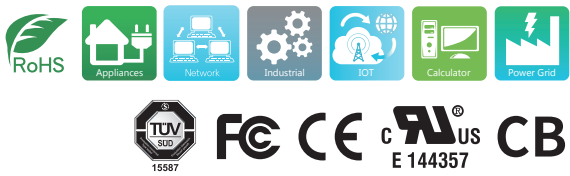
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP2501C-12	12V	20.8A	85.0%	UL, CUL, CB,TUV
UP2501C-14	14V	10.7A	85.0%	UL, CUL, CB,TUV
UP2501C-24	24V	10.4A	85.0%	UL, CUL, CB,TUV
UP2501C-48	48V	5.2A	87.0%	UL, CUL, CB,TUV
UP2501C-52	52V	4.8A	87.0%	UL, CUL, CB,TUV
UP2501C-53	53V	4.7A	87.0%	UL, CUL, CB,TUV
UP2501C-54	54V	4.6A	87.0%	UL, CUL, CB,TUV
UP2501C-55	55V	4.5A	87.0%	UL, CUL, CB,TUV
UP2501C-56	56V	4.5A	87.0%	UL, CUL, CB,TUV



UP3001D-XXG Series

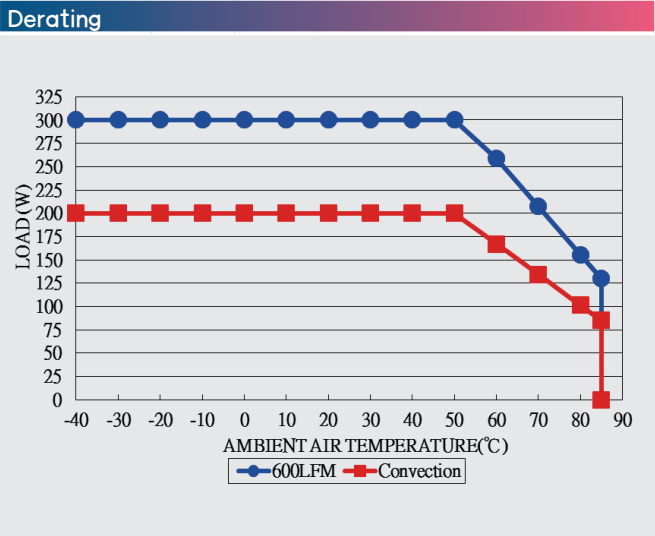
300 Watt AC / DC Open Frame

- ▶ 300W Max. with fan forced air
- ▶ Up to 200W with convection
- ▶ Dimension 3.15" x 5" x 1.37" suited for 1U
- ▶ High Efficiency up to 93%
- ▶ Operating altitude range 5000 meters

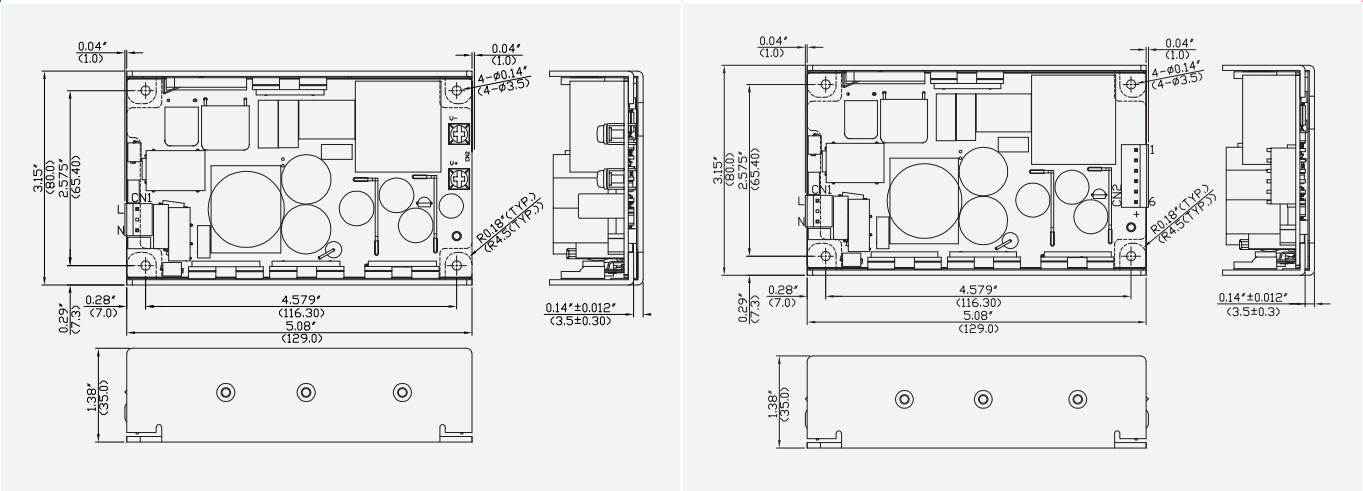


Input Specifications	
Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	220A max.@230 VAC (Cold Start)
Output Specifications	
Output Power	300 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	200 - 300 mV
Temperature Coefficient	±0.03 % / °C (max.)
Short Circuit Protection	Continuous or Latch
General Specifications	
Hold-up Time	12 mS (min.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-40 to + 85° C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	10 to 90% RH
Cooling	Forced Air Cooling with 9.9 CFM / 600 LFM fan
Physical Specifications	
Dimension	129.0 x 80.0 x 35.0 mm for 300 W (Tolerance ±5 mm) 129.0 x 80.0 x 39.0 mm for 350 W
Weight	450g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP3001D-12	12V	20.8	91.5%	Pending
UP3001D-24	24V	11.46	92.5%	Pending
UP3001D-48	48V	6.45	93.0%	Pending
UP3001D-54	54V	5.55	93.5%	UL, CUL, TUV, CB, CE, FCC



Dimension



UP3053A-XXG Series

305 Watt AC/DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ Active Power Factor Correction for IEC 1000-3-2 Compliance
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs @Ta=40°C
- ▶ RoHS Compliant
- ▶ Meet IEC60950-1&EN62368-1(UP3053A-02 & UP3053A-XXC safety pending)



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	30A max.@110VAC(Cold Start)
	60A max.@230VAC(Cold Start)

Output Specifications

Output Power	305 Watt (max.)
Total Regulation	±5 %
Ripple & Noise	<540mV max. (for -54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	10 mS (typ.)
Leakage Current	3 mA max.
Hi-pot Isolation	3000 VAC
Operating Temperature	0 to +70 °C (with derating)
Storage Temperature	-25°C to +70°C
Humidity	10 to 90% RH
Cooling	Free - Air Convection

Models

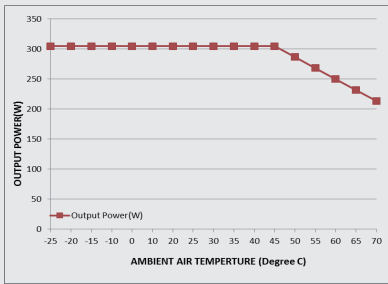
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP3053A-01(I)	-54V	5.6A	88.0%	UL, CUL, TUV, CB
	12V	5A		
	3.3V	0.7A		
UP3053A-02(I)	-54V	5.6A	88.0%	
	3.3V	0.7A		
UP3053A-01C(I)	-54V	5.6A	88.0%	
	12V	5A		
UP3053A-02C(I)	-54V	5.6A	88.0%	
	3.3V	0.7A		

Physical Specifications

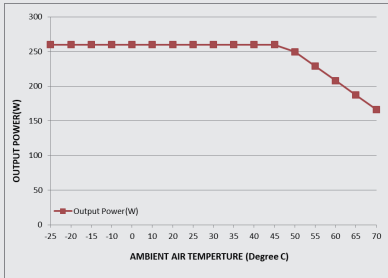
Dimension (Tolerance ±5 mm)	251.5 x 64.8 x 30.9 mm
Weight	762g

Derating

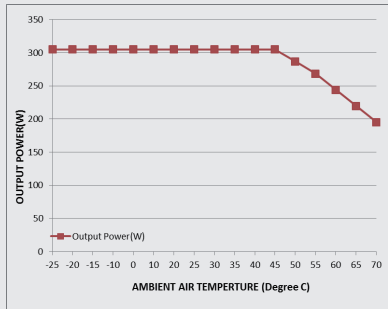
UP3053A-XX



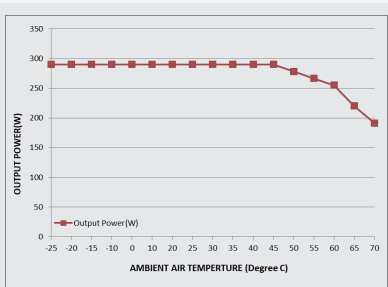
UP3053A-01C



UP3053A-01C(without case)

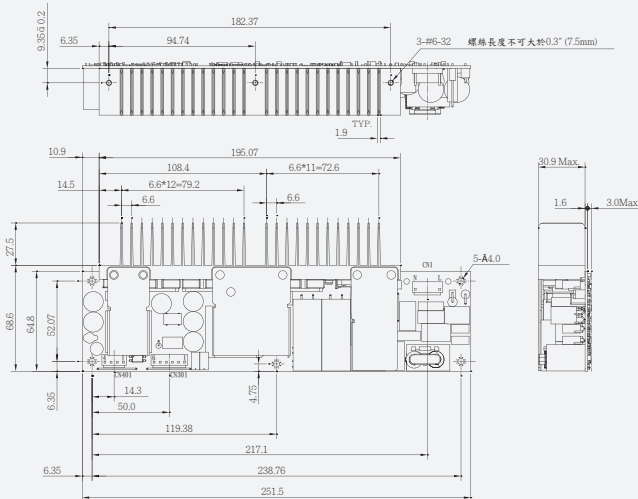


UP3053A-02C

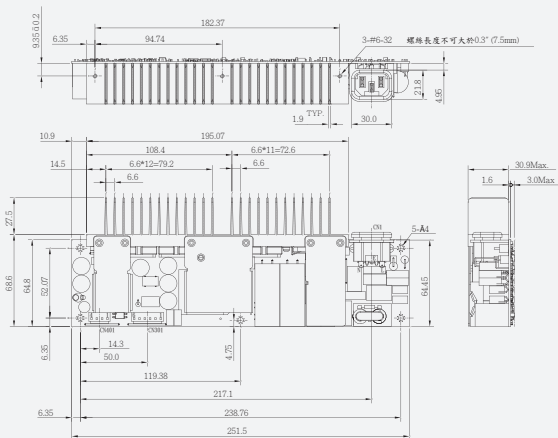


Dimension

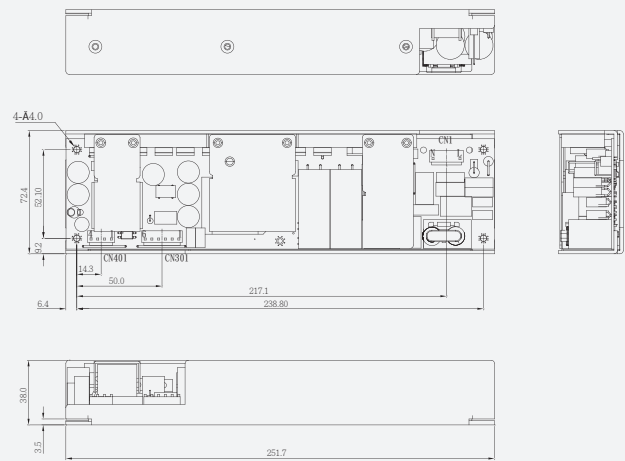
UP3053A-XX



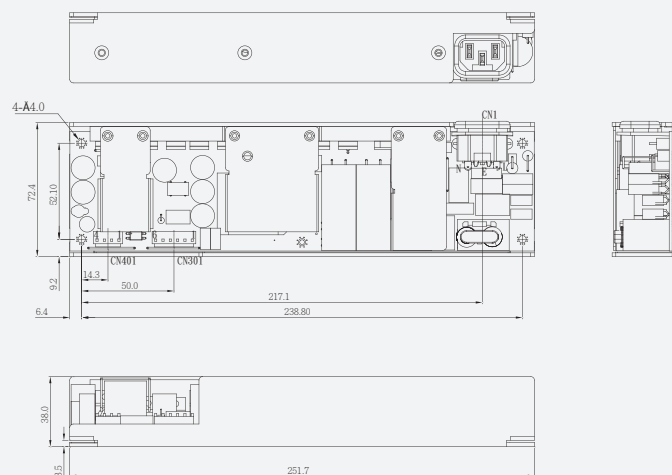
UP3053A-XXI



UP3053A-XXC



UP3053A-XXCI



UP3001H-XXG Series

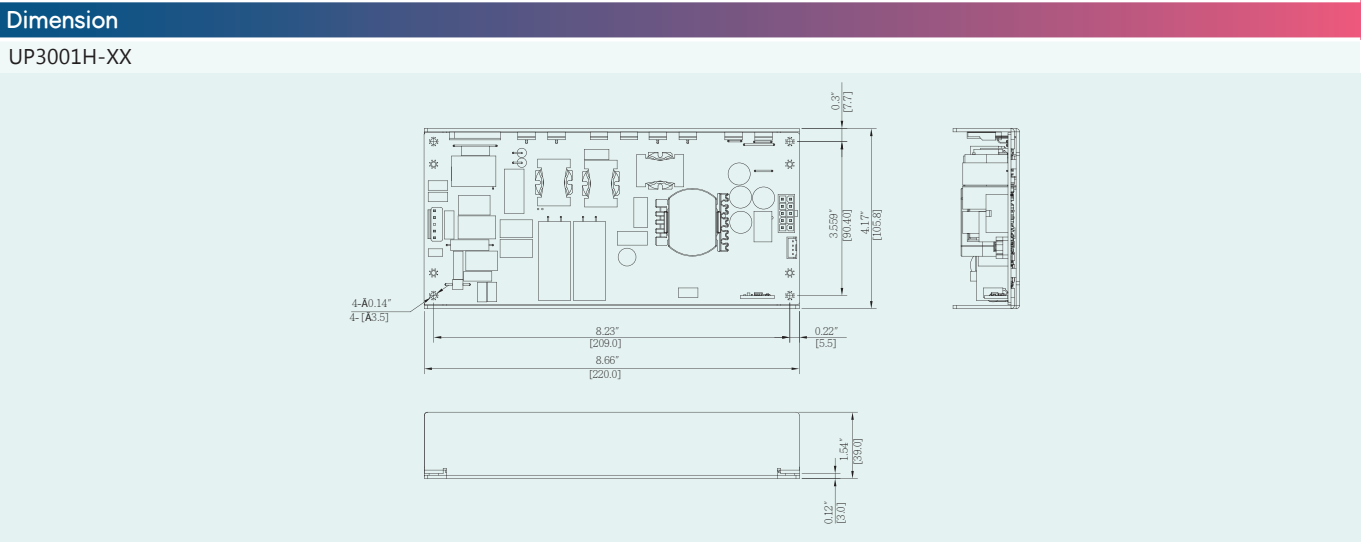
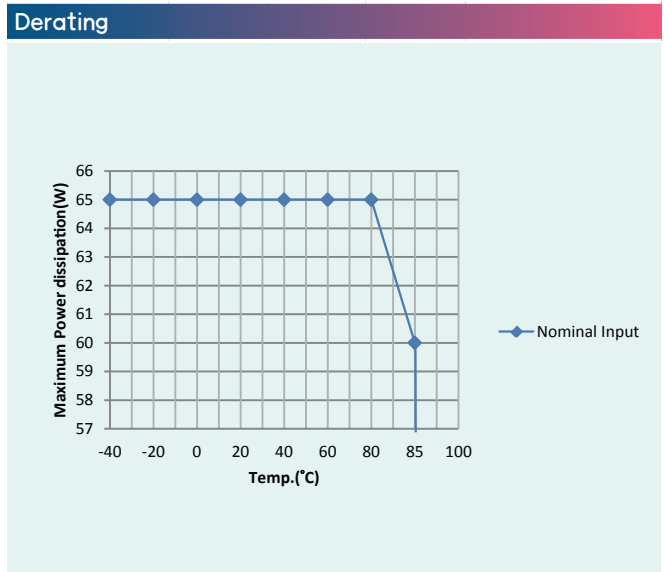


300 Watt AC/DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ Protections: Short Circuit / Over Voltage / Over Current / Over Temperature
- ▶ 300W Max. with convection
- ▶ EMI Meets FCC / CISPR 22 Class B
- ▶ MTBF 100Khrs
- ▶ RoHS Compliant

Input Specifications	
Input Voltage	90 - 264VAC
Frequency	50 - 60 Hz
Inrush Current	230A max.@230VAC (Cold Start)
Output Specifications	
Output Power	300 Watt (max.)
Total Regulation	± 5 %
Ripple & Noise	560 mV
Temperature Coefficient	± 0.03 % / °C (max.)
Short Circuit Protection	Continuous
General Specifications	
Hold-up Time	12mS (min.)
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-40 to 85°C (with derating)
Storage Temperature	-40 °C to +85 °C
Humidity	20 to 90 % RH
Cooling	Natural Cooling
Physical Specifications	
Dimension (Tolerance ±5 mm)	220 x 105.8 x 39 mm
Weight	906g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP3001H-54	54V	5.55A	90%	UL, CB



UP3501D-() () Series



350 Watt AC / DC Open Frame

- ▶ Dimension 3.15"x 5.08"x 1.5" suited for 1U
- ▶ 350W with fan forced air
- ▶ Up to 250W with convection
- ▶ Operating altitude range 4000 meters



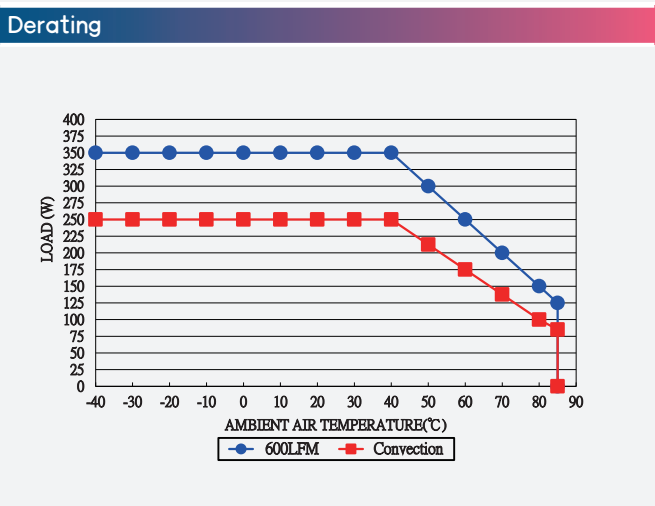
Input Specifications	
Input Voltage	90-264VAC
Frequency	47-63 Hz
Inrush Current	220A max.@230VAC(Cold Start)

Output Specifications	
Output Power	350 Watt max.
Total Regulation	±4 %
Ripple & Noise	<540 mV max. (for 54.0Vdc)
Temperature Coefficient	±0.03 % / °C (max.)
Short Circuit Protection	auto-recovery or latch

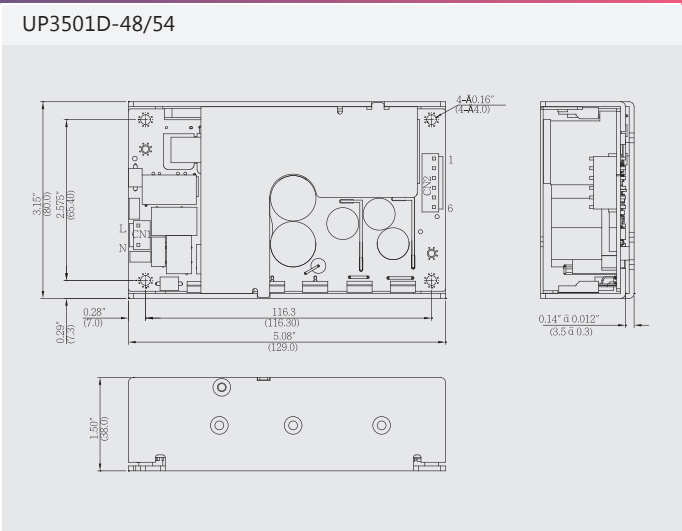
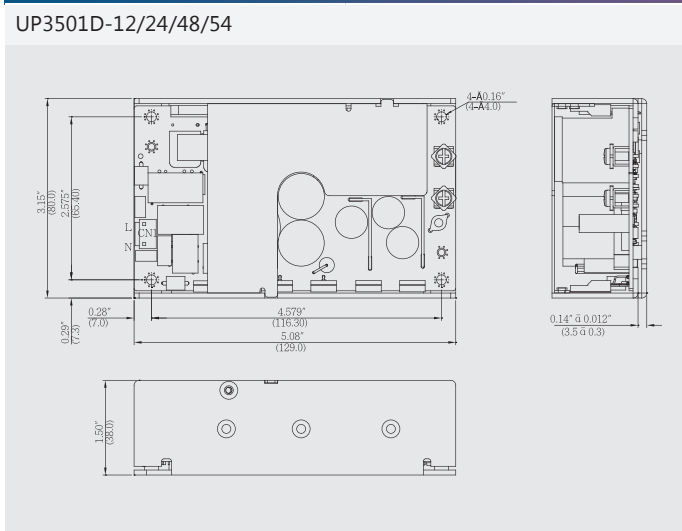
General Specifications	
Hold-up Time	12mS min.
Leakage Current	3 mA max.
Hi-pot Isolation	4242 VDC
Operating Temperature	-40 °C to + 85 °C (with derating)
Storage Temperature	-40 °C to + 85 °C
Humidity	10 to 90 % RH
Cooling	Forced Air Cooling with fan

Physical Specifications	
Dimension (Tolerance ±5 mm)	80 x 129 x 38 mm
Weight	506g

Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP3501D-12	12V	25A	90.0%	Pending
UP3501D-24	24V	13.54A	91.0%	Pending
UP3501D-48	48V	7.3A	91.5%	Pending
UP3501D-54	54V	6.48A	92.0%	Pending



Dimension



UP4001E-XXG Series

400 Watt AC/DC Open Frame

- ▶ Universal Input 90 to 264 VAC
- ▶ EMI Meets FCC/CISPR 32 Class B
- ▶ Continuous Short Circuit Protection
- ▶ MTBF 300Khrs
- ▶ RoHS Compliant
- ▶ Meet IEC60601-1&EN60601-1(Pending)
- ▶ Meet IEC62368-1 & IEC60950-1 (Pending)



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	100A max.@230VAC(Cold Start)

Output Specifications

Output Power	400 Watt (max.)
Total Regulation	±4 %
Ripple & Noise	<540mV max. (for 54.0Vdc)
Temperature Coefficient	±0.02 % / °C (max.)
Short Circuit Protection	Continuous

General Specifications

Hold-up Time	12mS (min.)
Leakage Current	0.3mA max.
Hi-pot Isolation	4000 VAC
Operating Temperature	0 to +70 °C (with derating)
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% RH
Cooling	Forced Air Cooling with fan

Physical Specifications

Dimension (Tolerance ±5 mm)	82.6 x 129 x 41.6 mm
Weight	480g

Models

Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UP4001E-12	12V	33.3A	91.0%	Pending
UP4001E-24	24V	16.7A	93.0%	Pending
UP4001E-48	48V	8.33A	94.0%	Pending
UP4001E-54	54V	7.4A	94.0%	Pending

Derating

Figure 1. Power rating at 115Vac

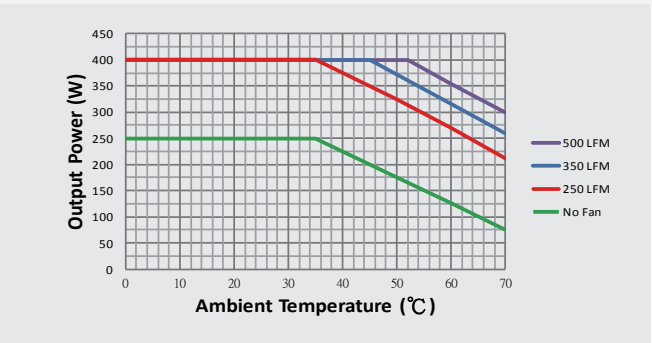
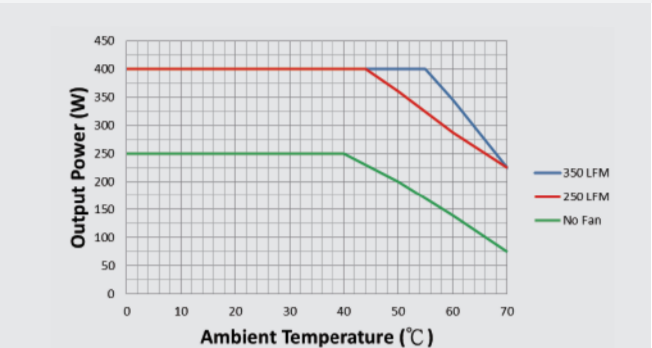
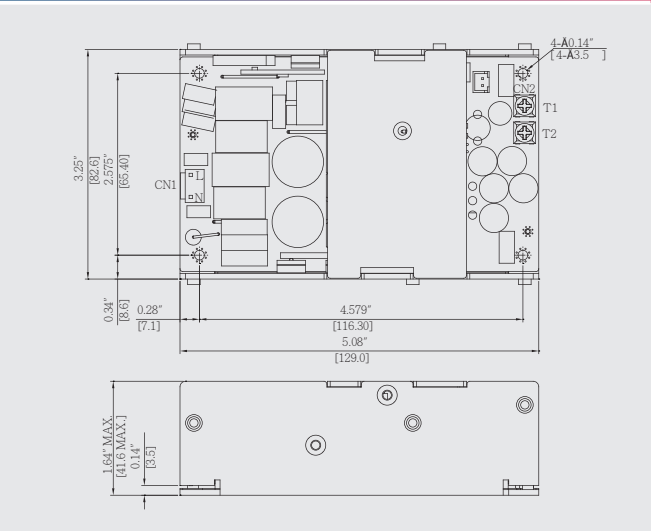


Figure 2. Power rating at 230Vac



Dimension



UP4602F/UP5202F-()() Series



520 Watts Power Dual Output Open Frame Switchers



- ▶ For PoE Power Supply
- ▶ 4.03" x 8.66" x 1.5" Open Frame
- ▶ Active Power Factor Correction for IEC 1000-3-2 Compliance
- ▶ Over Current, Voltage Protection, Over-Temperature
- ▶ Protection
- ▶ EMI Meets FCC / CISPR 22 Class A
- ▶ RoHS Compliant



Input Specifications

Input Voltage	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current	60A max. (230 Vac Cold Start) 40A max. (115 Vac Cold Start)

Output Specifications

Output Power	520 Watt (max.)
Total Regulation	± 5 %
Temperature Coefficient	±0.02 % / °C

General Specifications

Hold-up Time	10 mS (typ.)
Efficiency	84 % (typ.)
Leakage Current	3.5 mA (max.)
Hi-pot Isolation	4242 VDC
Operating Temperature	0°C to +70°C
Storage Temperature	-40 °C to + 85°C
Humidity	0 to 95 % RH
Cooling	Forced Air Cooling with 15 CFM / 600 LFM

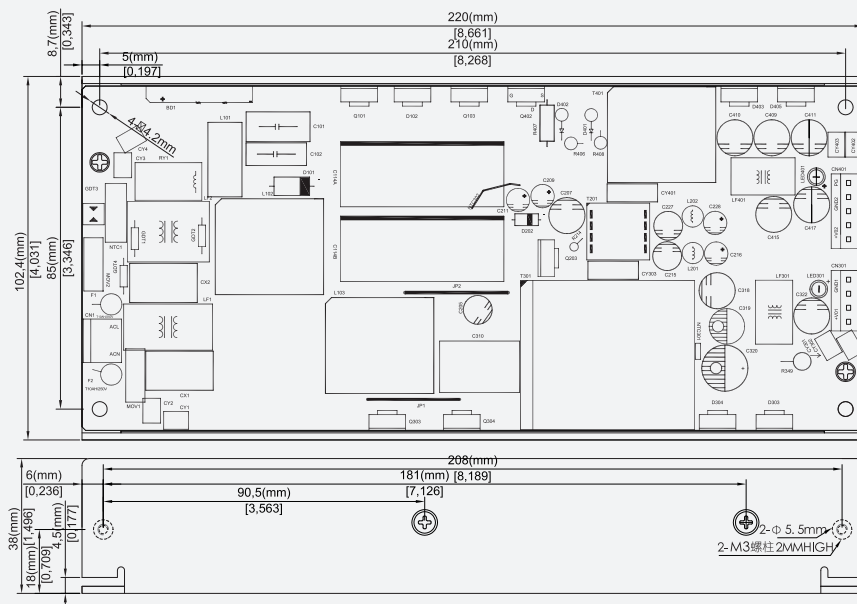
Models

Model Number	Output Voltage (V.DC)	Output Current (A max.)	Ripple P-P(mV)	Safety
UP4602F-02	V1	54V	7.4	500
	V2	12V	5	200
	PG*	high voltage (min.)	high voltage (max.)	low voltage (min.)
		2.5V min	5.25 V (±10%)	0.8V max
UP5202F-02	V1	54V	7.4	500
	V2	12V	5	200
	PG*	high voltage (min.)	high voltage (max.)	low voltage (min.)
		2.5V min	5.25 V (±10%)	0.8V max

Physical Specifications

Dimension (Tolerance ±5 mm)	220 x102.4 x38 mm
Weight	800g

Dimension





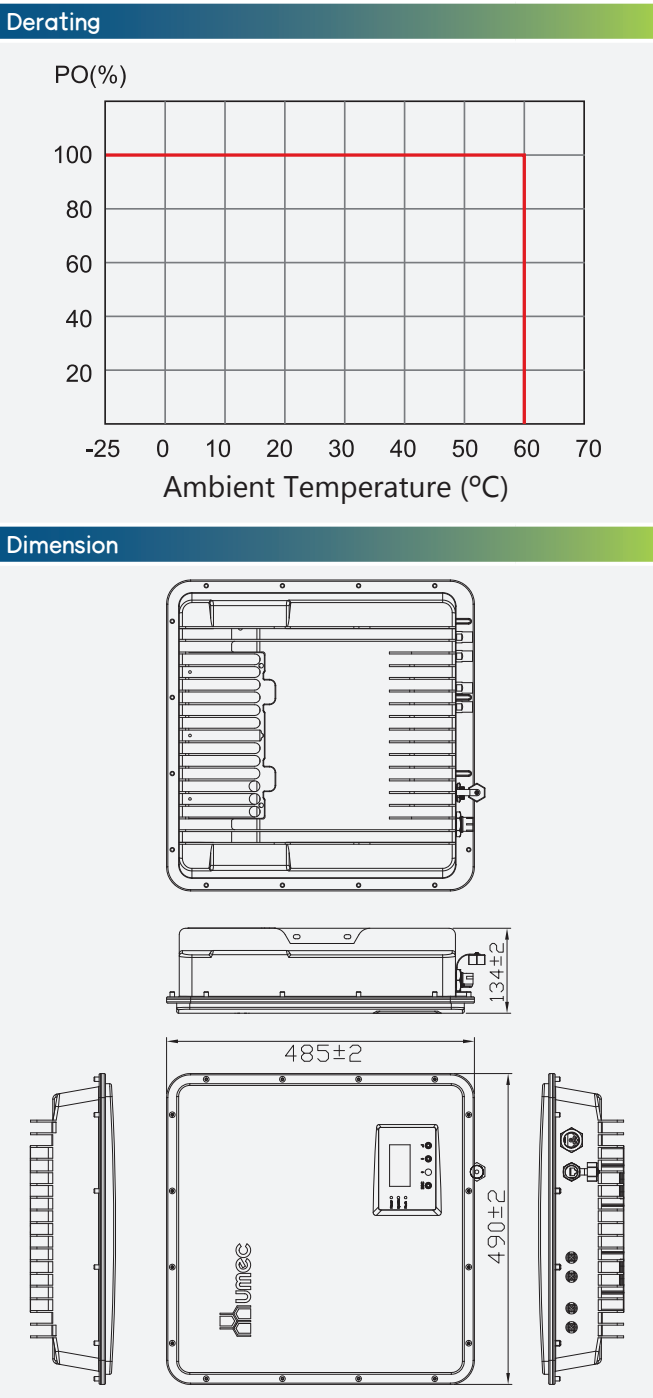
UPV4000STLG

4000 VA PV INVERTER

- ▶ Transformerless Single Phase
- ▶ Dual Input Sections with independent MPPT
- ▶ Wide MPPT range of 150 to 400 Vdc
- ▶ Suitable for Indoor and Outdoor applications (IP65)
- ▶ Fixed Voltage inverter, DC/AC conversion Only
- ▶ RoHS Compliant



Input Specifications				
Nominal DC Voltage		350VDC		
Input Voltage		150 - 450 VDC		
MPPT Range		150 - 400 VDC		
Number of MPPT Trackers		2		
Max. Input Current		2 x 10A		
Output Specifications				
Rated Output Power (Typ.)		3450 VA		
AC Voltage Range		230 V - 15% / +10%		
Max. Output Current		15A		
Nominal frequency		50 / 60Hz		
DC Current Injection		<0.5 % of rated output current		
Output Connect Method		1- Phase / 2 - Wire		
General Specifications				
Utility Protection		Over/under Voltage,Over Current Over/under Frequency,Ground fault DC Isolation fault,Anti-islanding		
Cooling		Convention cooling		
Operating Temperature		-25 to + 60 °C		
Certification				
Safety		IEC62109-1, IEC62109-2		
Grid Connection Standards		VDE 0126-1-1		
EMI/EMC		EN61000-6-2, EN61000-6-3		
Physical Specifications				
Dimension (Tolerance ±5 mm)		490.0 x 485.0 x 134.0 mm		
Weight		12 kg		
Models				
Model Number	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UPV4000STL	230V	15A	96.5%	UL, CUL, TUV, CB



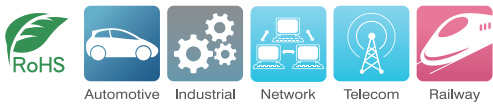
DC index

Package / Series Name	Watts	Input Voltage Range	Application	Page
1/2 Brick				
UMRH300E7	300W	60 - 160Vin	Railway	P01
UMRH300E6	300W	180 - 425Vin	Military	P02
UMRH150 / 200	150 - 200W	43 - 160Vin & 66 - 160Vin	Railway	P03, P04
UMFH350	350W	18 - 36Vin	Industrial, Military	P05
UMFH150 / 200	150 - 200W	9 - 36Vin & 18 - 75Vin	Industrial, Military	P06, P07
1/2 Flanged Baseplate Brick				
UMRV100	100W	66 - 160Vin	Railway	P14
1/4 Brick				
UMRQ050E8	50W	12 - 160V	Railway	P08
UMRQ100EC	100W	14 - 160V	Railway	P09
UMRQ100 / 150	100 - 150W	43-160Vin&66-160Vin&200-425Vin	Railway, Military	P10
UMFQ100 / 150	100 - 125W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P11
UM8700	165 - 200W	18 - 36Vin & 36 - 75Vin	Telecom	P12
UM8800	420W	36 - 75Vin	Telecom	P13
1/8 Brick				
UMFE100/120	80 - 120W	18 - 36Vin & 36 - 75Vin	Industrial, Railway, Telecom	P15-16
1/16 Brick				
UMFS050/060	50 - 66W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P17-19
1" X 1"				
UMFU030	30W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P20
UMRU025	25W	43 - 160Vin	Railway	P21
UMFU025E9	25W	9 - 75Vin	Industrial, Railway, Telecom	P22
UMFU025	25W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P23
UM8600W	15W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P24
2" X 1"				
UMFB060	60W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P25
UMFB040E9	40W	9 - 75Vin	Industrial, Railway, Telecom	P26
UM7800W	30W	9-36Vin&18-75Vin&43-160Vin	Industrial, Railway, Telecom	P27
UM6700W	20W	9-36Vin&18-75Vin&43-160Vin	Industrial, Railway, Telecom	P28
UM6600	15W	18 - 36Vin & 36 - 75Vin	Industrial, Railway, Telecom	P29-30
2" X 1.6"				
UM7700	50W	9-18Vin&18-36Vin&36-75Vin	Industrial, Railway, Telecom	P31
UM7700W	40W	9-36Vin&18-75Vin&43-160Vin	Industrial, Railway, Telecom	P32
2" X 2"				
UM7400	60W	9-18Vin&18-36Vin&36-75Vin	Industrial, Railway, Telecom	P33
UM7400W	40 - 50W	9-36Vin&18-75Vin&43-160Vin	Industrial, Railway, Telecom	P34
1.25" X 0.8"				
UM8100W	6W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P35
UM8000W	12W	9 - 36Vin & 18 - 75Vin	Industrial, Railway, Telecom	P36
Open Frame				
UMTY	30 - 100W	36 - 75Vin	Telecom, Server, Industrial	P37-38

UMRH300E7 SERIES

300 Watt DC - DC Converters

- ▶ Wide Input Range
- ▶ 300 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 4000VDC Input To Output Basic Insulation
- ▶ No Minimum Load Required
- ▶ EN50155 Approval
- ▶ RoHS Compliant

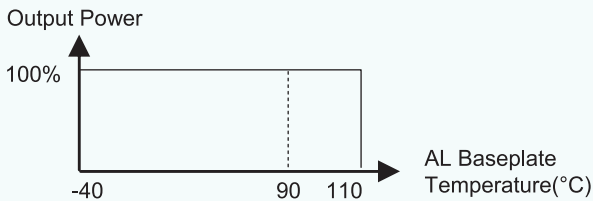


Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V - 15V 150 mV P-P max. 24V - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC4000V
b.) Input to FG	DC2000V
c.) Output to FG	DC1600V
Operating Temperature Range	-40°C to +110°C

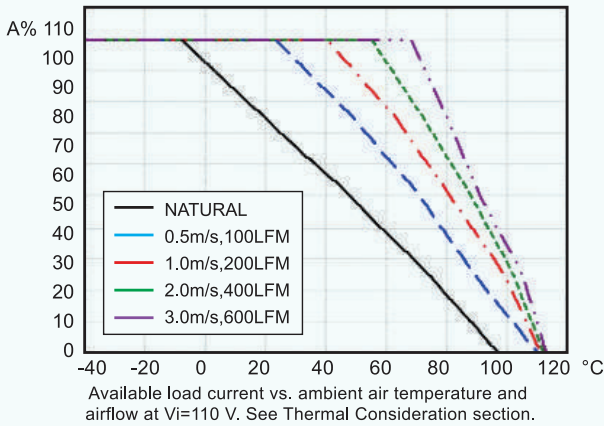
Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMRH300E7SSN12	110 VDC (60-160V)	12 VDC	25.0A	89%	UL, CUL, CB
UMRH300E7SSN14		13.8 VDC	21.7 A	89%	
UMRH300E7SSN15		15 VDC	20.0 A	89%	
UMRH300E7SSN24		24 VDC	12.5 A	90%	
UMRH300E7SSN28		28 VDC	10.7 A	90%	Pending
UMRH300E7SSN36		36 VDC	8.33 A	90%	
UMRH300E7SSN48		48 VDC	6.25 A	90%	UL, CUL, CB
UMRH300E7SSN54		54 VDC	5.55 A	90%	

Pin Connections			
PIN	Function	PIN	Function
1	-Vin	6	-Vsense
2	On / Off	7	Trim
3	On	8	+Vsense
4	+Vin	9	+Vout
5	-Vout		

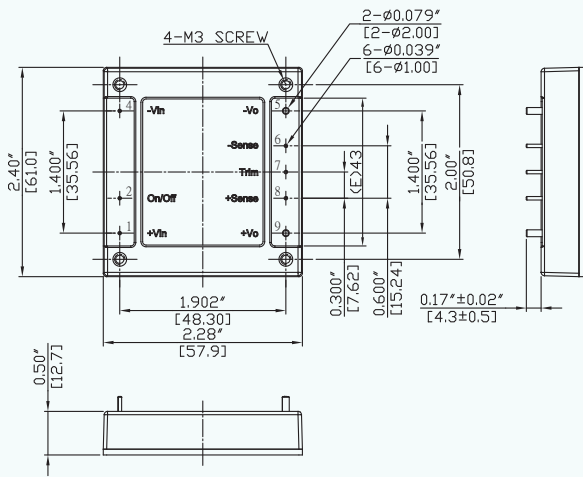
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



Dimensions



UMRH300E6 SERIES

300 Watt DC-DC Converters

- ▶ Wide Input Range
- ▶ 300 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 4250VDC Input To Output Insulation
- ▶ No Minimum Load Required
- ▶ Safety Approvals Pending
- ▶ RoHS Compliant

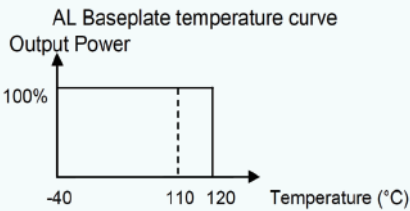


Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	12V - 15V 150 mV P-P max. 24V - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC4250V
b.) Input to FG	DC3000V
c.) Output to FG	DC1500V
Operating Temperature Range	-40°C to +110°C

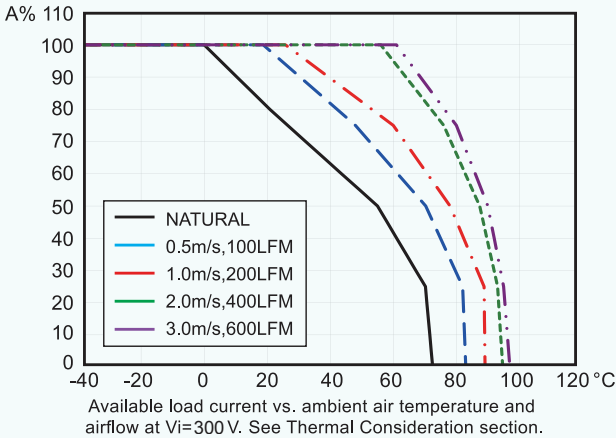
Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMRH300E6SSN12	300VDC (180-425V)	12 VDC	25 A	89%
UMRH300E6SSN14		13.8 VDC	21.8 A	89%
UMRH300E6SSN15		15 VDC	20.0 A	90%
UMRH300E6SSN24		24 VDC	12.5 A	91%
UMRH300E6SSN28		28 VDC	10.8 A	91%
UMRH300E6SSN48		48 VDC	6.25 A	92%
UMRH300E6SSN54		54 VDC	5.56 A	92%

Pin Connections			
PIN	Function	PIN	Function
1	+Vin	6	-Vsense
2	On / Off Control	7	Trim
3	MC	8	+Vsense
4	+Vin	9	+Vout
5	-Vout		

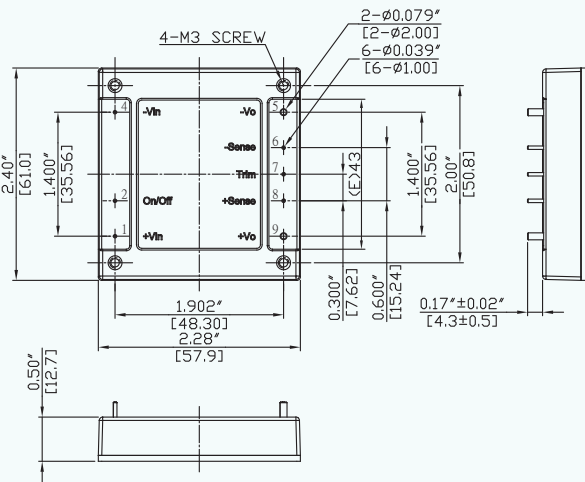
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



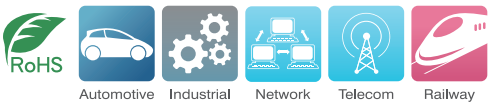
Dimensions



UMRH200 SERIES

200 Watt DC - DC Converters

- ▶ Wide Input Range
- ▶ 200 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 4000VDC Input To Output Basic Insulation
- ▶ EN50155 Approval
- ▶ No Minimum Load Required
- ▶ RoHS Compliant

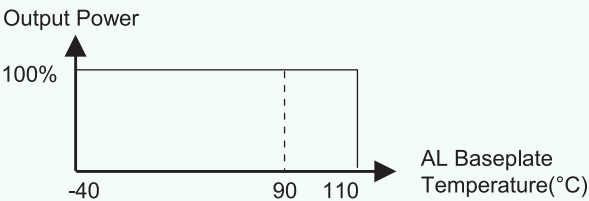


Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	12V - 15V 150 mV P-P max.
	24V - 36V 200 mV P-P max.
	48V - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC 4000 V
b.) Input to FG	DC 2250 V
c.) Output to FG	DC 1600 V
Operating Temperature Range	-40°C to +110°C

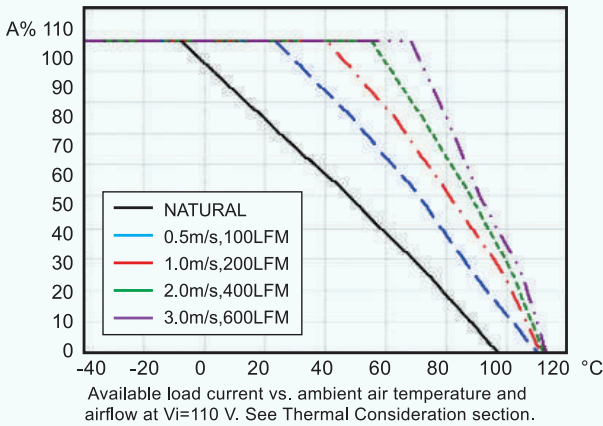
Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMRH200E5SSN12	110 VDC (43-160V)	12 VDC	16.8 A	87%	Pending
UMRH200E5SSN15		15 VDC	13.5 A	86%	
UMRH200E5SSN24		24 VDC	8.40 A	89%	
UMRH200E5SSN28		28 VDC	7.20 A	89%	
UMRH200E5SSN36		36 VDC	5.60 A	90%	
UMRH200E5SSN48		48 VDC	4.20 A	90%	
UMRH200E5SSN54		54 VDC	3.80 A	90%	
UMRH200E7SSN12	110 VDC (66-160V)	12 VDC	16.8 A	89%	UL, CUL, CB
UMRH200E7SSN15		15 VDC	13.5 A	89%	
UMRH200E7SSN24		24 VDC	8.40 A	91%	
UMRH200E7SSN28		28 VDC	7.20 A	91%	
UMRH200E7SSN36		36 VDC	5.60 A	91%	
UMRH200E7SSN48		48 VDC	4.20 A	91%	
UMRH200E7SSN54		54 VDC	3.80 A	91%	

Pin Connections			
PIN	Function	PIN	Function
1	-Vin	6	-Vsense
2	On / Off Control	7	Trim
3	MC	8	+Vsense
4	+Vin	9	+Vout
5	-Vout		

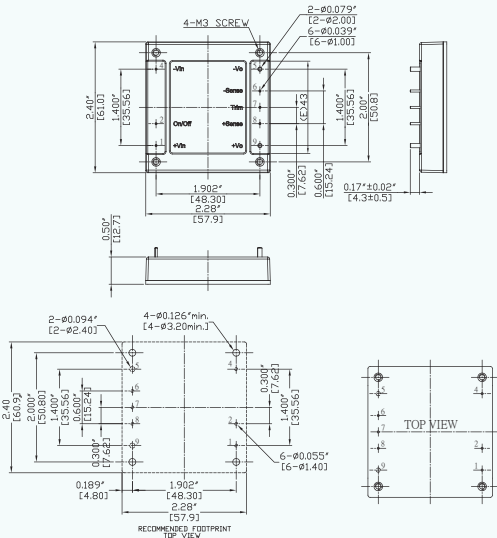
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



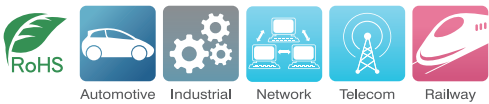
Dimensions



UMRH150 SERIES

150 Watt DC - DC Converter

- ▶ 4:1 Input Range
- ▶ 150 W Isolated Output Power
- ▶ High-Density
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 3000VAC Isolation and Reinforce Insulation
- ▶ No Minimum Load Required
- ▶ RoHS Compliant

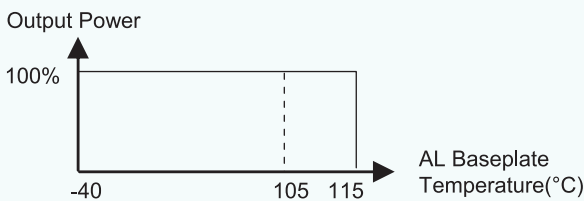


Specifications	
Voltage Accuracy	±1.5% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	12V - 15V 100 mV P-P max. 24V - 54V 150 mV P-P max.
Isolation Voltage	
a.) Input to Output, cutoff current = 10 mA	AC 3000 V
b.) Input to FG, cutoff current = 10 mA	AC 2000 V
c.) Output to FG, cutoff current = 100 mA	AC 1000V
Operating Temperature Range	-40°C to + 110°C

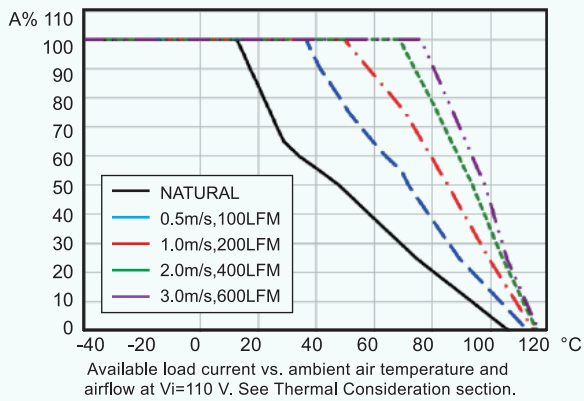
Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMRH150E5SSN12	110 VDC (43-160V)	12 VDC	12.5 A	89%	UL, CUL, CB
UMRH150E5SSN15		15 VDC	10.0 A	89%	UL, CUL, CB
UMRH150E5SSN24		24 VDC	6.25 A	89%	UL, CUL, CB
UMRH150E5SSN28		28 VDC	5.35 A	89%	UL, CUL, CB
UMRH150E5SSN48		48 VDC	3.15 A	89%	UL, CUL, CB
UMRH150E5SSN54		54 VDC	2.78 A	89%	UL, CUL, CB

Pin Connections			
PIN	Function	PIN	Function
1	-Vin	6	+Vsense
2	Case	7	Trim
3	On / Off Control	8	-Vsense
4	+Vin	9	-Vout
5	+Vout		

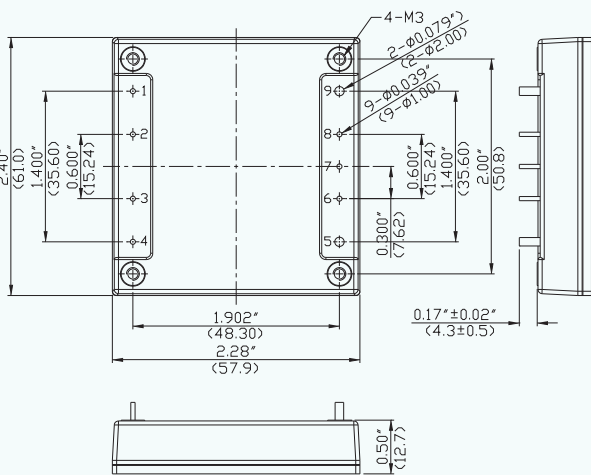
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



Dimensions



UMFH350 SERIES

350 Watt DC - DC Converter

- ▶ 350 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 2250VDC Input To Output Basic Insulation
- ▶ RoHS Compliant

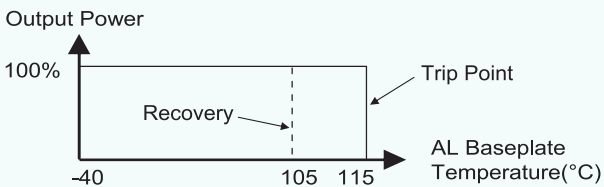


Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±1.0% max.
Load Regulation	±1.0% max.
Ripple & Noise	12V,13.8V,15V 150 mV P-P max. 24V, 48V,54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC2250V
b.) Input to FG	DC1500V
c.) Output to FG	DC1000V
Operating Temperature Range	-40°C to +110°C

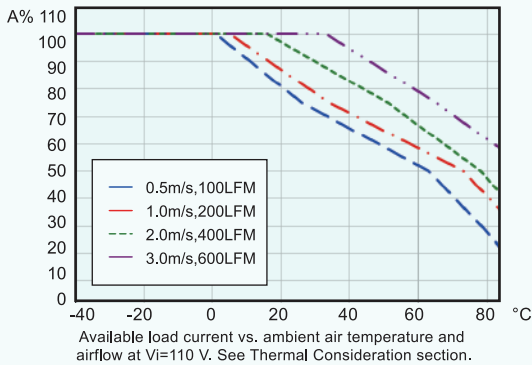
Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFH350E1SSN12	24 VDC (18-36 VDC)	12 VDC	29.2 A	90%
UMFH350E1SSN14		13.8 VDC	25.3 A	90%
UMFH350E1SSN15		15 VDC	23.3 A	90%
UMFH350E1SSN24		24 VDC	14.5 A	90%
UMFH350E1SSN48		48 VDC	7.3 A	90%
UMFH350E1SSN54		54 VDC	6.5 A	90%

Pin Connections			
PIN	Function	PIN	Function
1	+Vin	7	Trim
2	On/Off Control	8	+Vsense
4	-Vin	9	+Vout
5	-Vout		
6	-Vsense		

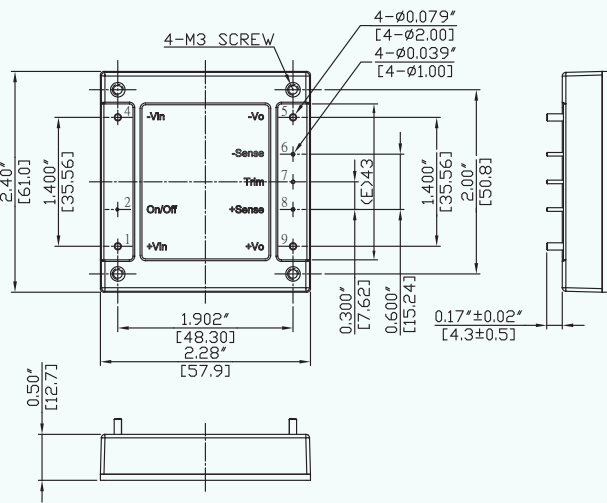
Hot Spot v.s. AL Baseplate Temperature Curve



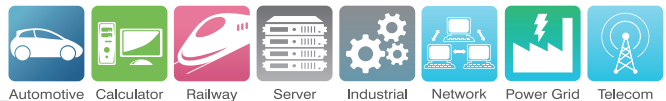
Output Current Derating



Dimensions



UMFH200 SERIES



200 Watt DC - DC Converter

- ▶ 4:1 Input Range
- ▶ 200 W Isolated Output Power
- ▶ High-Density
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 2250VDC Input To Output Basic Insulation
- ▶ No Minimum Load Required
- ▶ All Safety Approvals Pending
- ▶ RoHS Compliant



Specifications

Voltage Accuracy	±1.5% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V 75 mV P-P max. 12 - 15V 150 mV P-P max. 24 - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output, cutoff current = 10 mA	DC2250V
b.) Input to FG, cutoff current = 10 mA	DC2250V
c.) Output to FG, cutoff current = 10 mA	DC1600V
Operating Temperature Range	-40°C to +110°C

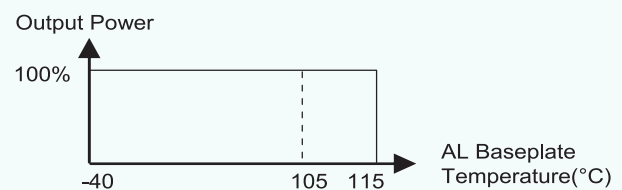
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFH200E3SSN05	24 VDC (9-36 VDC)	5 VDC	40.0 A	89%
UMFH200E3SSN12		12 VDC	16.67 A	89%
UMFH200E3SSN15		15 VDC	13.33 A	89%
UMFH200E3SSN24		24 VDC	8.33 A	89%
UMFH200E3SSN28		28 VDC	7.14 A	89%
UMFH200E3SSN48		48 VDC	4.16 A	89%
UMFH200E3SSN54		54 VDC	3.7 A	89%
UMFH200E4SSN05	48 VDC (18-75 VDC)	5 VDC	40.0 A	90%
UMFH200E4SSN12		12 VDC	16.67 A	89%
UMFH200E4SSN15		15 VDC	13.33 A	90%
UMFH200E4SSN24		24 VDC	8.33 A	90%
UMFH200E4SSN28		28 VDC	7.14 A	90%
UMFH200E4SSN48		48 VDC	4.16 A	90%
UMFH200E4SSN54		54 VDC	3.7 A	90%

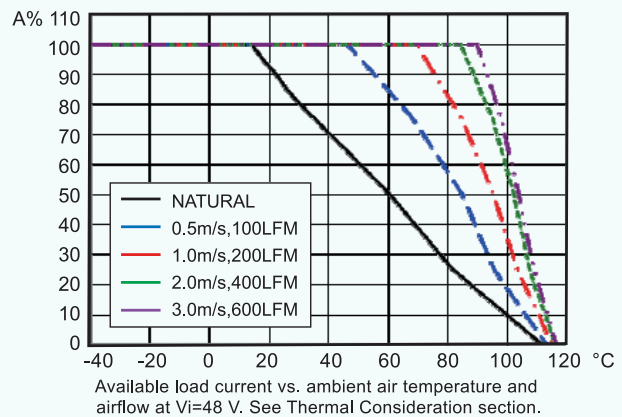
Pin Connections

PIN	Function	PIN	Function
1	-Vin	6	+Vsense
2	Case	7	Trim
3	On / Off Control	8	-Vsense
4	+Vin	9	-Vout
5	+Vout		

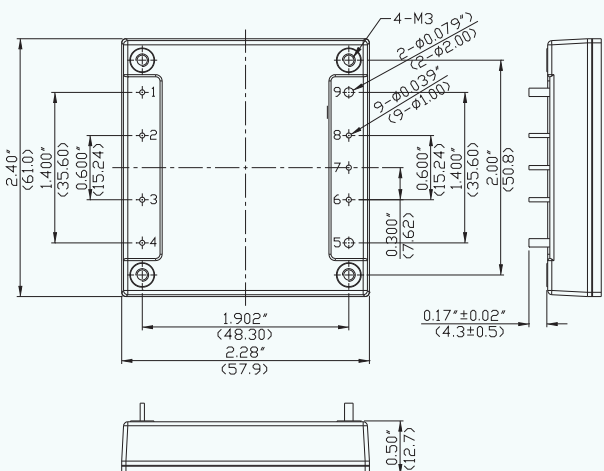
Hot Spot v.s. AL Baseplate Temperature Curve



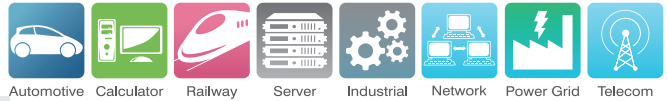
Output Current Derating



Dimensions



UMFH150 SERIES



150 Watt DC - DC Converter

- ▶ 2 : 1 、 4 : 1 Ultra Wide Input Voltage Range
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Package
- ▶ 2250 VDC Input To Output Basic Insulation
- ▶ No Minimum Load Required
- ▶ All Safety Approvals Pending
- ▶ RoHS Compliant

Specifications

Voltage Accuracy	±1% max.
Line Regulation	±0.5% max.
Load Regulation	±0.5% ±1.0% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max.
	12 - 15V 150 mV P-P max.
	24 - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output, cutoff current = 10 mA	DC2250V
b.) Input to FG, cutoff current =10 mA	DC2250V
c.) Output to FG, cutoff current =10 mA	DC1600V
Operating Temperature Range	-40°C to +110°C (With Derating)

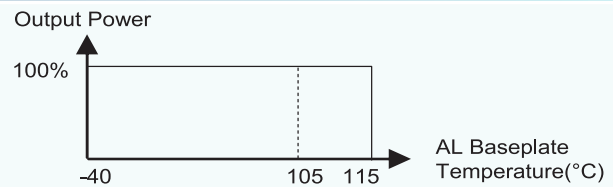
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFH150E0SSN03	12 VDC (9-18 VDC)	3.3 VDC	40.0 A	88%
UMFH150E0SSN05		5 VDC	30.0 A	90%
UMFH150E0SSN12		12 VDC	12.5 A	90%
UMFH150E0SSN15		15 VDC	10 A	90%
UMFH150E0SSN24		24 VDC	6.25 A	90%
UMFH150E0SSN28		28 VDC	5.35 A	90%
UMFH150E0SSN48	24 VDC (18-36 VDC)	48 VDC	3.125 A	90%
UMFH150E0SSN54		54 VDC	2.78 A	90%
UMFH150E1SSN03		3.3 VDC	40.0 A	89%
UMFH150E1SSN05		5 VDC	30.0 A	90%
UMFH150E1SSN12		12 VDC	12.5 A	90%
UMFH150E1SSN15		15 VDC	10 A	90%
UMFH150E1SSN24		24 VDC	6.25 A	91%
UMFH150E1SSN28	48 VDC (36-75 VDC)	28 VDC	5.35 A	91%
UMFH150E1SSN48		48 VDC	3.125 A	91%
UMFH150E1SSN54		54 VDC	2.78 A	91%
UMFH150E2SSN03		3.3 VDC	40.0 A	89%
UMFH150E2SSN05		5 VDC	30.0 A	90%
UMFH150E2SSN12		12 VDC	12.5 A	90%
UMFH150E2SSN15	24 VDC (9-36 VDC)	15 VDC	10 A	89%
UMFH150E2SSN24		24 VDC	6.25 A	89%
UMFH150E2SSN28		28 VDC	5.35 A	89%
UMFH150E2SSN48		48 VDC	3.125 A	89%
UMFH150E2SSN54		54 VDC	2.78 A	89%
UMFH150E3SSN03	48 VDC (18-75 VDC)	3.3 VDC	40.0 A	88%
UMFH150E3SSN05		5 VDC	30.0 A	89%
UMFH150E3SSN12		12 VDC	12.5 A	89%
UMFH150E3SSN15		15 VDC	10 A	89%
UMFH150E3SSN24		24 VDC	6.25 A	90%
UMFH150E3SSN28		28 VDC	5.35 A	90%
UMFH150E4SSN03		3.3 VDC	40.0 A	88%
UMFH150E4SSN05		5 VDC	30.0 A	89%
UMFH150E4SSN12		12 VDC	12.5 A	89%
UMFH150E4SSN15		15 VDC	10 A	89%
UMFH150E4SSN24		24 VDC	6.25 A	90%
UMFH150E4SSN28		28 VDC	5.35 A	90%
UMFH150E4SSN48		48 VDC	3.125 A	90%
UMFH150E4SSN54		54 VDC	2.78 A	90%

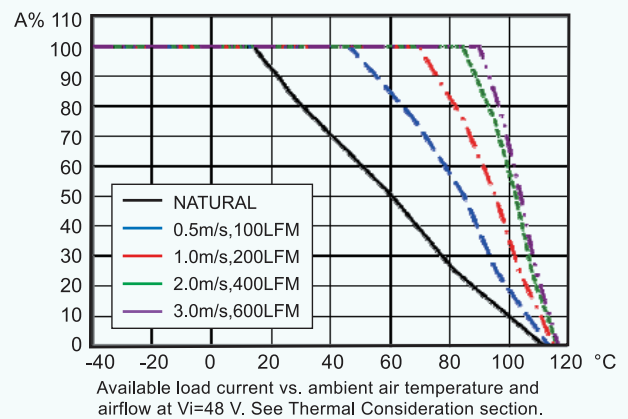
Pin Connections

PIN	Function	PIN	Function
1	-Vin	6	+Vsense
2	Case	7	Trim
3	On / Off Control	8	-Vsense
4	+Vin	9	-Vout
5	+Vout		

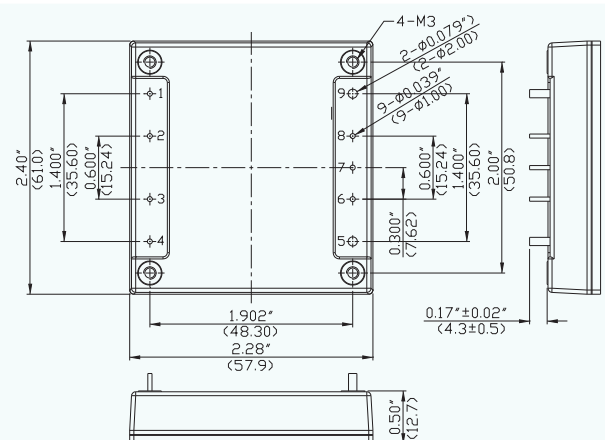
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



Dimensions



UMRQ050E8 SERIES

50 Watt DC-DC Converter

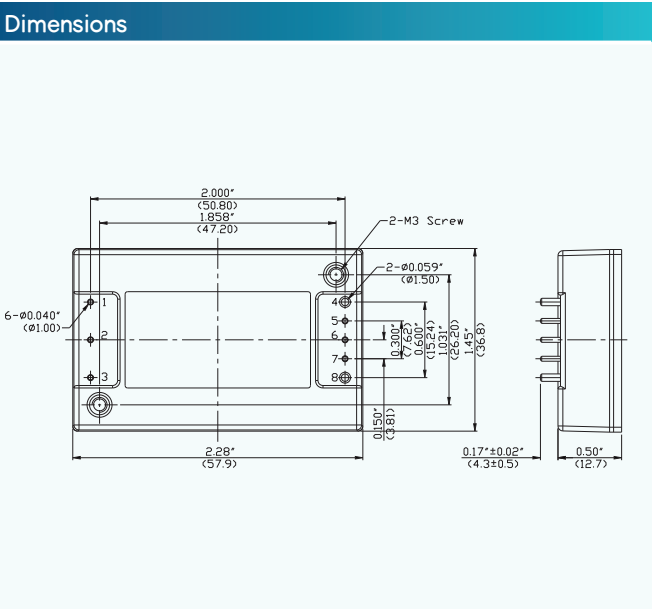
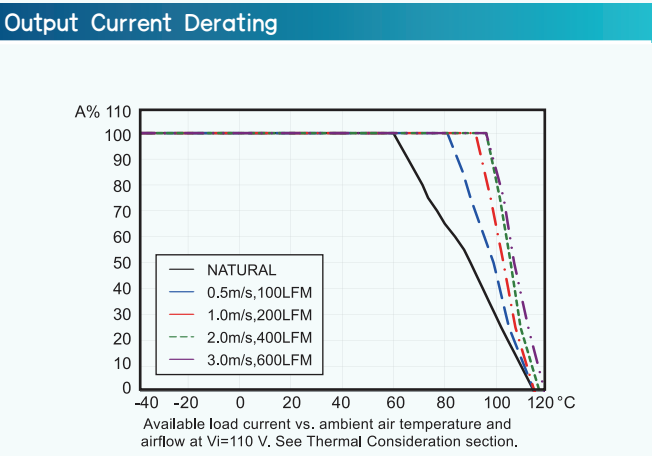
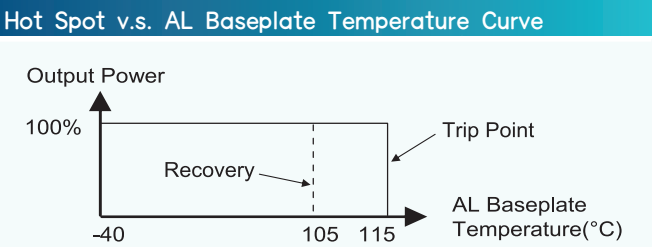
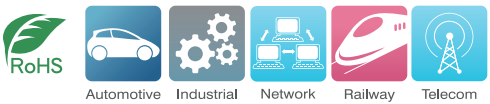
- ▶ Ultra-Wide Input Range 12-160Vin
- ▶ 50 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/4 Brick Package
- ▶ 4000VDC Input To Output Basic Insulation
- ▶ EN50155 Approval
- ▶ RoHS Compliant



Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±1.0% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V100 mV P-P max. 12V,13.8V,15V200 mV P-P max. 24V,48V,54V300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC4000V
b.) Input to FG	DC2250V
c.) Output to FG	DC1500V
Operating Temperature Range	-40°C to +110°C

Models					
Model Number	Input Range	Output Voltage	Output Current	Eff. (%)	Safety
UMRQ050E8SSN05	72 VDC (12-160 V)	5 VDC	10.0 A	88%	UL, CUL, CB
UMRQ050E8SSN12		12 VDC	4.20 A	90%	
UMRQ050E8SSN14		13.8 VDC	3.60 A	90%	
UMRQ050E8SSN15		15 VDC	3.35 A	90%	
UMRQ050E8SSN24		24 VDC	2.1 A	90%	
UMRQ050E8SSN48		48 VDC	1.05 A	90%	
UMRQ050E8SSN54		54 VDC	0.95 A	89%	

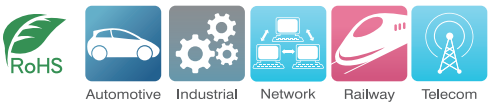
Pin Connections			
PIN	Function	PIN	Function
1	-Vin	6	Trim
2	On/Off Control	7	+Vsense
3	+Vin	8	+Vout
4	-Vout		
5	-Vsense		



UMRQ100EC SERIES

100 Watt DC-DC Converter

- ▶ Ultra-Wide Input Range 14-160Vin
- ▶ 100 W Isolated Output Power
- ▶ Enclosure type
- ▶ Standard 1/4 Brick Package
- ▶ 4000VDC Input To Output Basic Insulation
- ▶ Meet Standard EN50155 Requirement
- ▶ RoHS Compliant

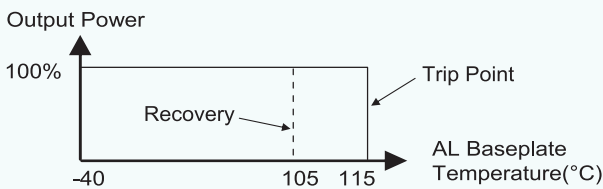


Specifications	
Voltage Accuracy	±1.0% max.
Line Regulation	±1.0% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V 100 mV P-P max. 12V,13.8V,15V 200 mV P-P max. 24V,48V,54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC4000V
b.) Input to FG	DC2250V
c.) Output to FG	DC1500V
Operating Temperature Range	
-40°C to +110°C	

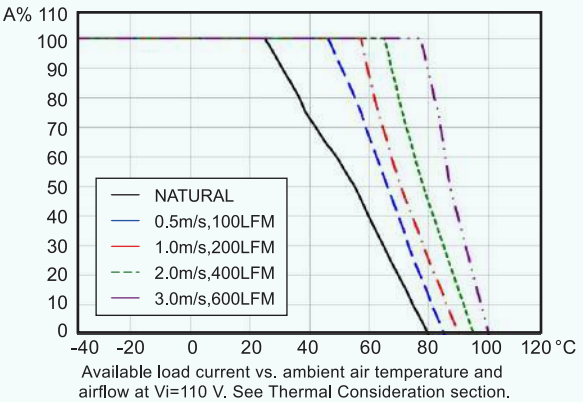
Models				
Model Number	Input Range	Output Voltage	Output Current	Eff. (%)
UMRQ100ECSSN05	72 VDC (14-160 V)	5 VDC	20.0 A	88%
UMRQ100ECSSN12		12 VDC	8.35 A	90%
UMRQ100ECSSN14		13.8 VDC	7.25 A	90%
UMRQ100ECSSN15		15 VDC	6.67 A	90%
UMRQ100ECSSN24		24 VDC	4.20 A	90%
UMRQ100ECSSN48		48 VDC	2.10 A	89%
UMRQ100ECSSN54		54 VDC	1.85 A	89%

Pin Connections			
PIN	Function	PIN	Function
1	-Vin	6	Trim
2	On/Off Control	7	+Vsense
3	+Vin	8	+Vout
4	-Vout		
5	-Vsense		

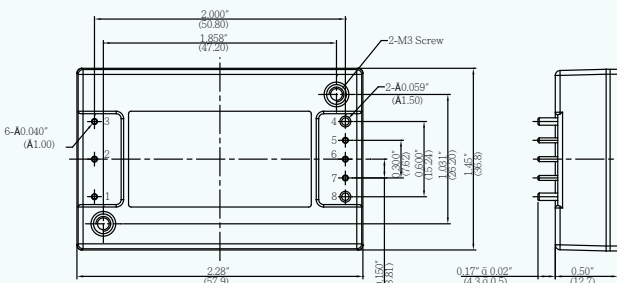
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



Dimensions



UMRQ SERIES

100 - 150 Watt DC - DC Converters

- ▶ 2 : 1, 4 : 1 Input Range
- ▶ 100 - 150W Isolated Output Power
- ▶ High - Density
- ▶ Standard 1/4 Brick Package
- ▶ Enclosure Type
- ▶ RoHS Compliant

CB [®] ^{UL} ^{US}
E 144357



Specifications

Voltage Accuracy	±1.2% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V 100 mV P-P max.
	12 -15V 150 mV P-P max.
	24V - 54V 500 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC 4000 V
b.) Input to FG	DC 2250 V
c.) Output to FG	DC 1500 V
Operating Temperature Range	-40°C to +105°C

Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMRQ100E5SSP05	110 VDC (43-160V)	5 VDC	20 A	85%	UL, CUL, CB
UMRQ100E5SSP12		12 VDC	8.3 A	88%	UL, CUL, CB
UMRQ100E5SSP15		15 VDC	6.67 A	88%	UL, CUL, CB
UMRQ100E5SSP24		24 VDC	4.16 A	87%	UL, CUL, CB
UMRQ100E5SSP28		28 VDC	3.57 A	88%	UL, CUL, CB
UMRQ100E5SSP48	110 VDC (43-160V)	48 VDC	2.08 A	88%	UL, CUL, CB
UMRQ100E5SSP54		54 VDC	1.85 A	88%	UL, CUL, CB
UMRQ150E5SSP12	110 VDC (43-160V)	12 VDC	12.5 A	88%	UL, CUL, CB
UMRQ150E5SSP15		15 VDC	10 A	88%	UL, CUL, CB
UMRQ150E5SSP24		24 VDC	6.25 A	86%	UL, CUL, CB
UMRQ150E5SSP28		28 VDC	5.36 A	87%	UL, CUL, CB
UMRQ150E5SSP48		48 VDC	3.12 A	87%	UL, CUL, CB
UMRQ150E5SSP54	240 VDC (200-425V)	54 VDC	2.78 A	87%	UL, CUL, CB
UMRQ100E6SSP05	240 VDC (200-425V)	5 VDC	20 A	87%	Pending
UMRQ100E6SSP12		12 VDC	8.3 A	89%	Pending
UMRQ100E6SSP15		15 VDC	6.67 A	89%	Pending
UMRQ100E6SSP24		24 VDC	4.16 A	89%	Pending
UMRQ100E6SSP28	240 VDC (200-425V)	28 VDC	3.57 A	89%	Pending
UMRQ100E6SSP48		48 VDC	2.08 A	89%	Pending
UMRQ100E6SSP54		54 VDC	1.85 A	89%	Pending
UMRQ150E6SSP12	240 VDC (200-425V)	12 VDC	12.5 A	88%	Pending
UMRQ150E6SSP15		15 VDC	10 A	88%	Pending
UMRQ150E6SSP24		24 VDC	6.25 A	88%	Pending
UMRQ150E6SSP28		28 VDC	5.36 A	88%	Pending
UMRQ150E6SSP48		48 VDC	3.12 A	88%	Pending
UMRQ150E6SSP54	240 VDC (200-425V)	54 VDC	2.78 A	88%	Pending
UMRQ100E7SSP05	110 VDC (66-160V)	5 VDC	20 A	87%	UL, CUL, CB
UMRQ100E7SSP12		12 VDC	8.3 A	89%	UL, CUL, CB
UMRQ100E7SSP15		15 VDC	6.67 A	89%	UL, CUL, CB
UMRQ100E7SSP24		24 VDC	4.16 A	89%	UL, CUL, CB
UMRQ100E7SSP28		28 VDC	3.57 A	89%	UL, CUL, CB
UMRQ100E7SSP48	110 VDC (66-160V)	48 VDC	2.08 A	88%	UL, CUL, CB
UMRQ100E7SSP54		54 VDC	1.85 A	88%	UL, CUL, CB
UMRQ150E7SSP12	110 VDC (66-160V)	12 VDC	12.5 A	88%	UL, CUL, CB
UMRQ150E7SSP15		15 VDC	10 A	88%	UL, CUL, CB

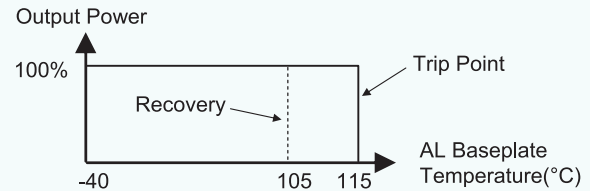
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMRQ150E7SSP24	110 VDC (66-160V)	24 VDC	6.25 A	86%	UL, CUL, CB
UMRQ150E7SSP28		28 VDC	5.36 A	88%	UL, CUL, CB
UMRQ150E7SSP48		48 VDC	3.12 A	88%	UL, CUL, CB
UMRQ150E7SSP54		54 VDC	2.78 A	88%	UL, CUL, CB

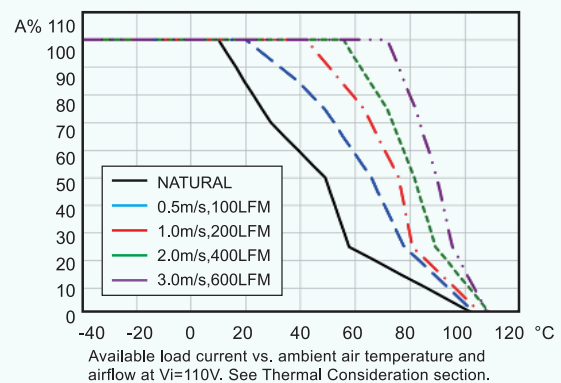
Pin Connections

PIN	Function	PIN	Function
1	-Vin	5	-Vsense
2	Remote On / Off Control	6	Trim
3	+Vin	7	+Vsense
4	-Vout	8	+Vout

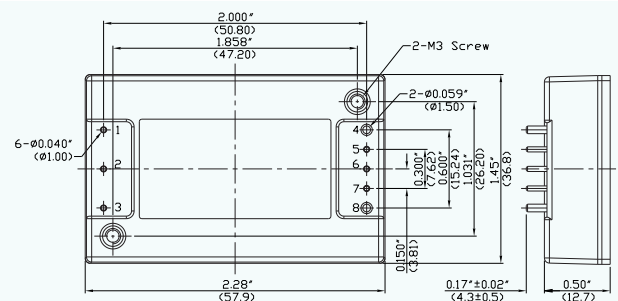
Hot Spot v.s. AL Baseplate Temperature Curve



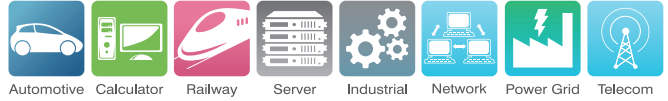
Output Current Derating



Dimensions



UMFQ SERIES



100 - 125 Watt DC - DC Converter

- ▶ 2:1, 4 : 1 Ultra Wide Input Voltage Range
- ▶ 100 - 125W Isolated Output Power
- ▶ High-Density
- ▶ Enclosure type
- ▶ Standard 1/4 Brick Package
- ▶ Input Under and Overvoltage Shutdown
- ▶ Remote on/off Control
- ▶ Safety Approvals Pending
- ▶ RoHS Compliant



Specifications

Voltage Accuracy	±1.5% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 -15V 200 mV P-P max. 24V - 54V 300 mV P-P max.
Isolation Voltage	
a.) Input to Output	DC 2250VDC
b.) Input to FG	DC1000VDC
c.) Output to FG	DC 1000VDC
Operating Temperature Range	-40°C to +120°C

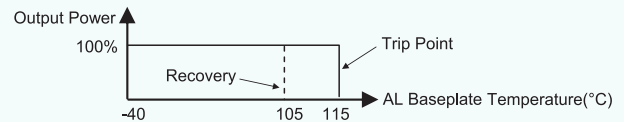
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFQ125E1SSP03	24 VDC (18-36 VDC)	3.3 VDC	30 A	87%
UMFQ125E1SSP05		5 VDC	25 A	89%
UMFQ125E1SSP12		12 VDC	10.4 A	91%
UMFQ125E1SSP15		15 VDC	8.3 A	91%
UMFQ125E1SSP24		24 VDC	5.2 A	89%
UMFQ125E1SSP28		28 VDC	4.46 A	89%
UMFQ125E1SSP48		48 VDC	2.6 A	89%
UMFQ125E2SSP54	48 VDC (36-75 VDC)	54 VDC	2.32 A	89%
UMFQ125E2SSP03		3.3 VDC	30 A	87%
UMFQ125E2SSP05		5 VDC	25 A	90%
UMFQ125E2SSP12		12 VDC	10.4 A	91%
UMFQ125E2SSP15		15 VDC	8.3 A	91%
UMFQ125E2SSP24		24 VDC	5.2 A	89%
UMFQ125E2SSP28		28 VDC	4.46 A	89%
UMFQ125E2SSP48		48 VDC	2.6 A	89%
UMFQ125E2SSP54	24 VDC (9-36 VDC)	54 VDC	2.32 A	89%
UMFQ100E3SSP03		3.3 VDC	27 A	86%
UMFQ100E3SSP05		5 VDC	20 A	87%
UMFQ100E3SSP12		12 VDC	8.33 A	90%
UMFQ100E3SSP15		15 VDC	6.67 A	89%
UMFQ100E3SSP24		24 VDC	4.16 A	88%
UMFQ100E3SSP28		28 VDC	3.57 A	88%
UMFQ100E3SSP48	48 VDC (18-75 VDC)	48 VDC	2.08 A	88%
UMFQ100E3SSP54		54 VDC	1.85 A	88%
UMFQ100E4SSP03		3.3 VDC	30 A	87%
UMFQ100E4SSP05		5 VDC	20 A	88%
UMFQ100E4SSP12		12 VDC	8.3 A	90%
UMFQ100E4SSP15		15 VDC	6.67 A	90%
UMFQ100E4SSP24		24 VDC	4.16 A	88%
UMFQ100E4SSP28		28 VDC	3.57 A	88%
UMFQ100E4SSP48		48 VDC	2.08 A	88%
UMFQ100E4SSP54		54 VDC	1.85 A	88%

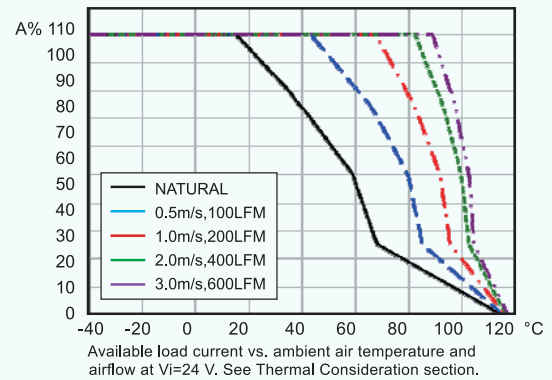
Pin Connections

PIN	Function	PIN	Function
1	-Vin	5	-Vsense
2	Remote On/Off Control	6	Trim
3	+Vin	7	+Vsense
4	-Vout	8	+Vout

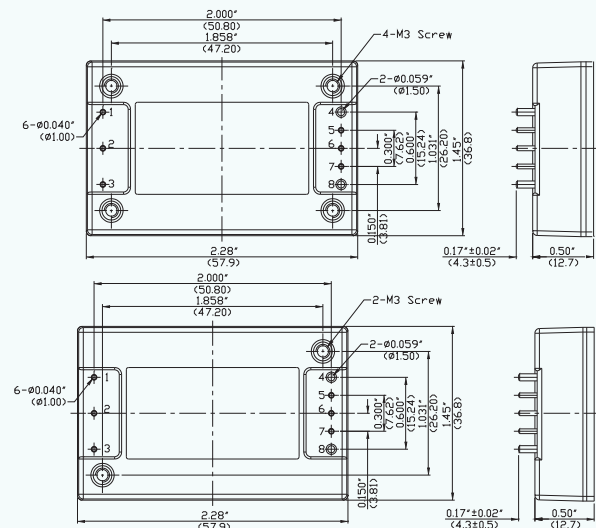
Hot Spot v.s. AL Baseplate Temperature Curve



Output Current Derating



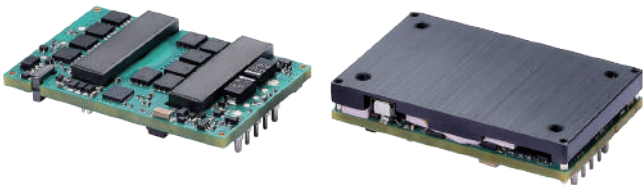
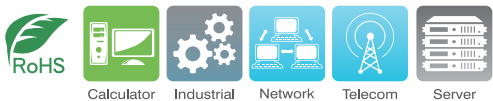
Dimensions



UM8700 SERIES

165 to 200 Watt DC - DC Converter

- ▶ 2 : 1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 92%
- ▶ 165-200W Isolated Output Power
- ▶ Standard 1/4 Brick Package
- ▶ RoHS Compliant



Specifications

Voltage Accuracy	±1% max.
Line Regulation	±0.2% max.
Load Regulation	±0.5% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 - 15V 150 mV P-P max.
Isolation Voltage	1500VDC
Operating Temperature Range	-40°C to +120°C

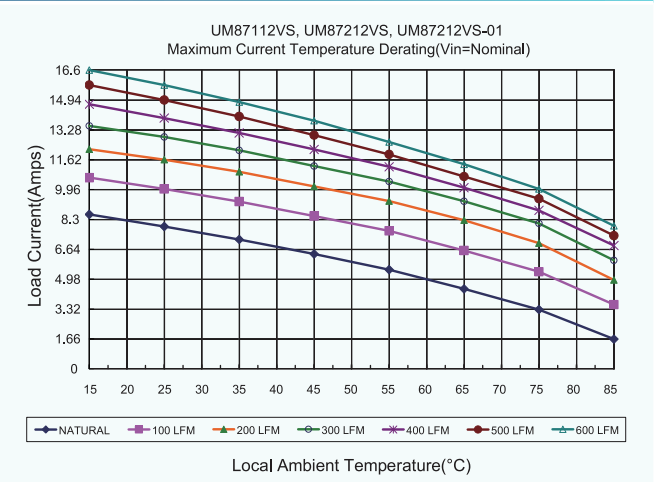
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UM8713V3S	24 VDC (18-36 VDC)	3.3 VDC	50 A	90%	Pending
UM8715V0S		5 VDC	33 A	91%	Pending
UM87112VS		12 VDC	14 A	92%	Pending
UM87115VS		15 VDC	11 A	91%	Pending
UM8723V3S	48 VDC (36-75 VDC)	3.3 VDC	50 A	90%	Pending
UM8723V3S-01		3.3 VDC	60 A	90%	Pending
UM8725V0S		5 VDC	33 A	91%	Pending
UM8725V0S-01		5 VDC	40 A	91%	Pending
UM87212VS		12 VDC	14 A	92%	UL, CUL, CB
UM87212VS-01		12 VDC	16.6 A	92%	UL, CUL, CB
UM87215VS		15 VDC	11 A	91%	UL, CUL, CB
UM87215VS-01		15 VDC	13.2 A	91%	UL, CUL, CB

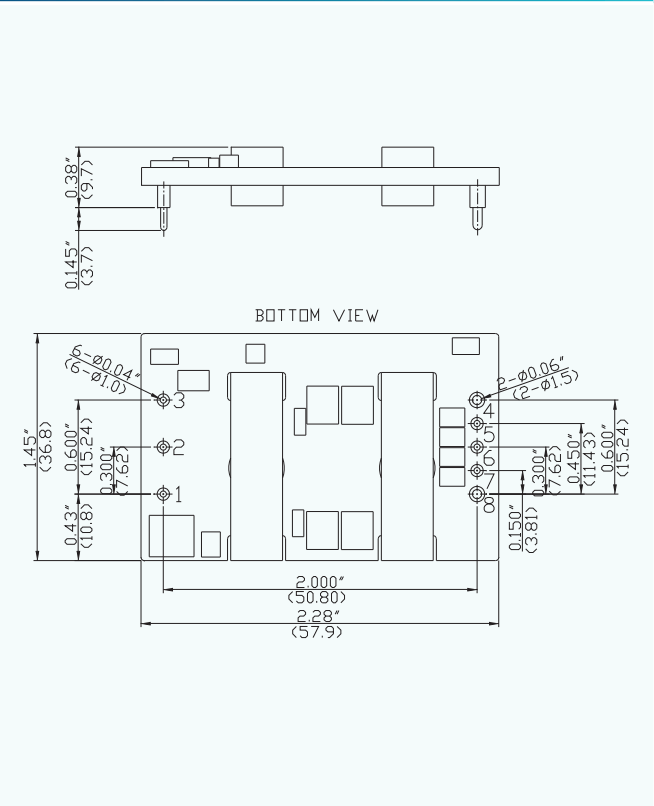
Pin Connections

PIN	Function	PIN	Function
1	+Vin	5	-Vsense
2	Remote On-Off Control	6	Trim
3	-Vin	7	+Vsense
4	-Vout	8	+Vout

Derating Curve



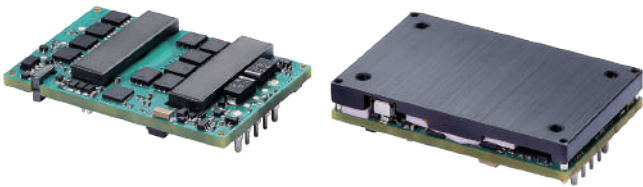
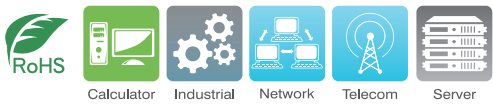
Dimensions



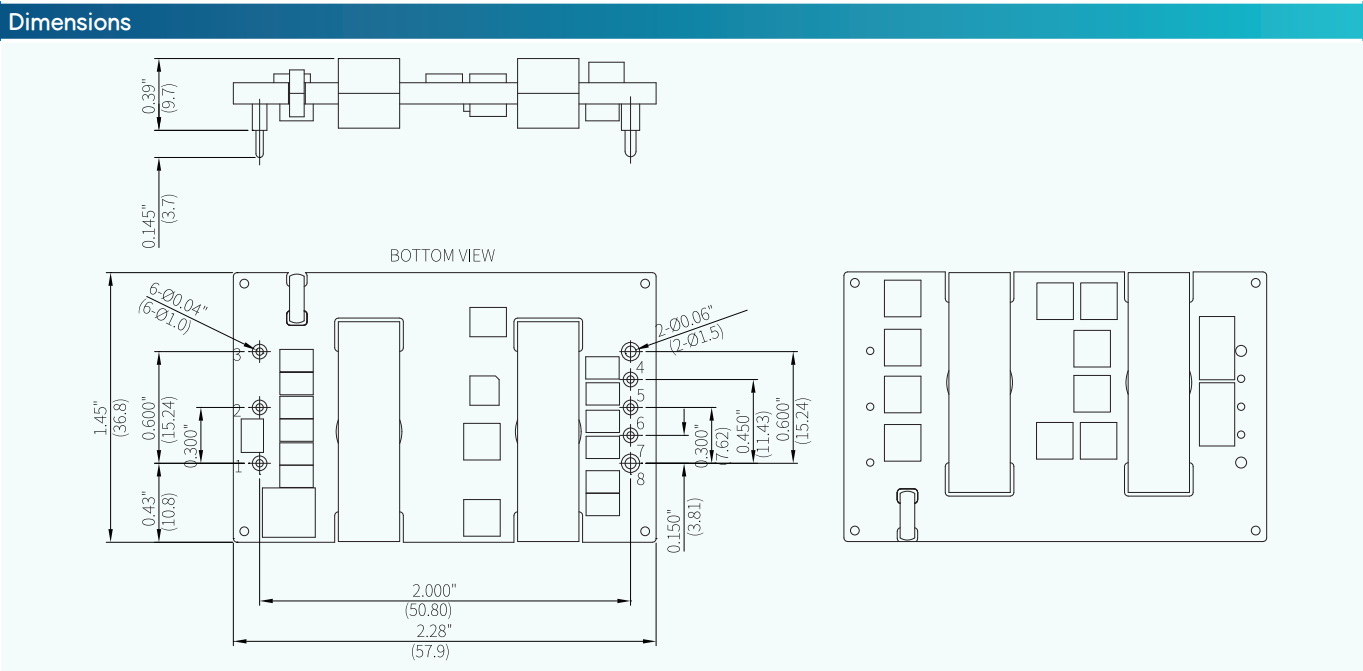
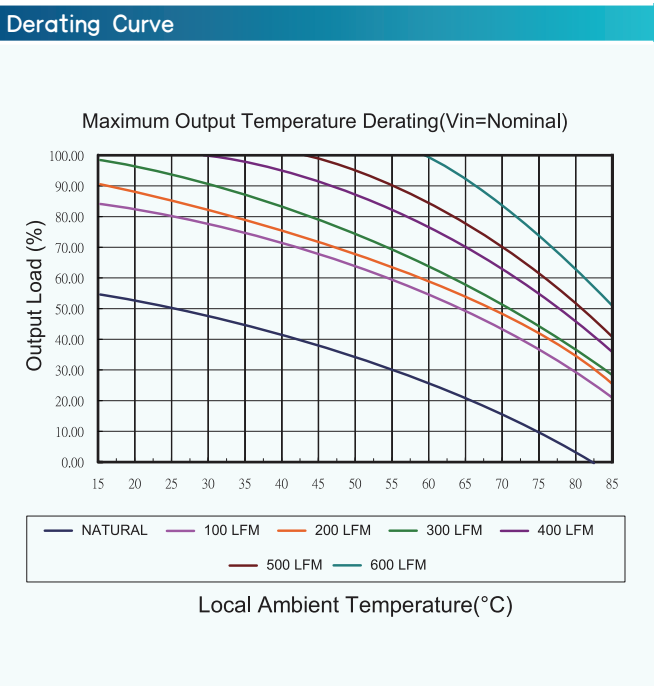
UM8800 SERIES

420 Watt DC - DC Converter

- ▶ 2 : 1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 93%
- ▶ 420 W Isolated Output Power
- ▶ Standard 1/4 Brick Package
- ▶ RoHS Compliant
- ▶ Safety Approvals Pending



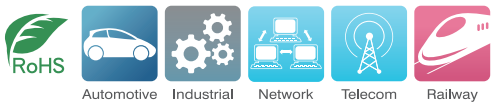
Specifications				
Voltage Accuracy		±1% max.		
Line Regulation		±0.2% max.		
Load Regulation		±0.5% max.		
Ripple & Noise		12 - 15V 200 mV P-P max.		
Isolation Voltage		1500VDC		
Operating Temperature Range		-40°C to +120°C		
Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UM88212VS	36-75 VDC	12 VDC	35 A	93%
UM88215VS	(48 VDC)	15 VDC	28 A	93%
Pin Connections				
PIN	Function	PIN	Function	
1	+Vin	5	-Vsense	
2	Remote On-Off Control	6	Trim	
3	-Vin	7	+Vsense	
4	-Vout	8	+Vout	



UMRV SERIES

100 Watt DC - DC Converter

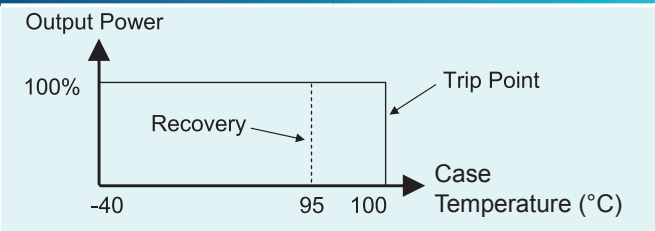
- ▶ 2.4 : 1 Ultra Wide Input Voltage Range
- ▶ 100 W Isolated Output Power
- ▶ High-Density
- ▶ Enclosure type
- ▶ Standard 1/2 Brick Footprint
- ▶ Input Under and Over Voltage Shutdown
- ▶ Remote on/off Control
- ▶ RoHS Compliant
- ▶ Safety Approvals Pending



Specifications

Voltage Accuracy	±1.5% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	3.3V - 5V 100 mV P-P max. 12V - 24V 200 mV P-P max.
Isolation Voltage	3000VDC
Operating Temperature Range	-40°C to + 100°C

Hot Spot v.s. AL Baseplate Temperature Curve



Pin Connections

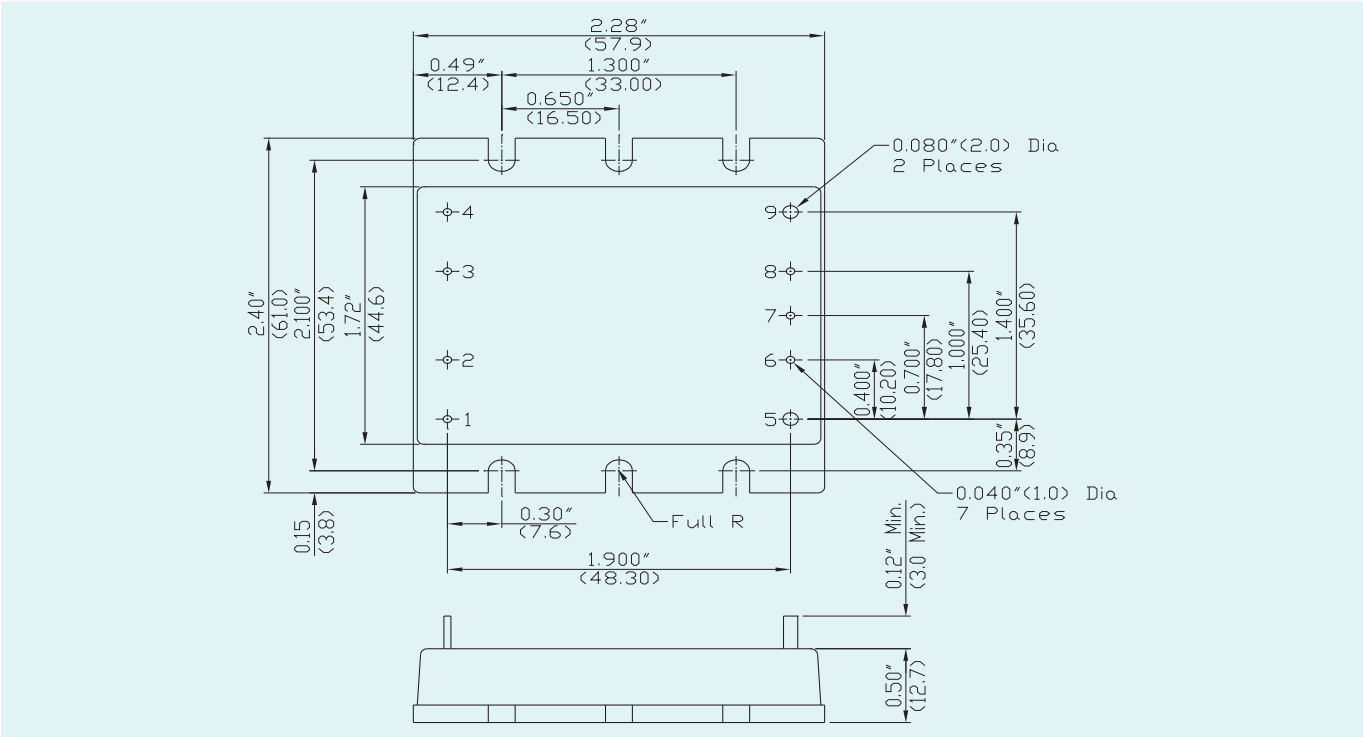
PIN	Function	PIN	Function
1	+Vin	6	+Vsense
2	On / Off Control	7	Trim
3	Case	8	-Vsense
4	-Vin	9	-Vout
5	+Vout		

Models

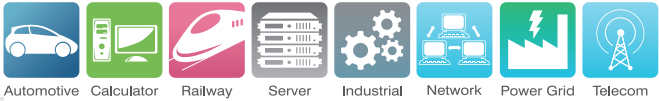
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMRV100F5SSP03	66-160 VDC (110VDC)	3.3 VDC	30 A	87%
UMRV100F5SSP05		5 VDC	20 A	89%
UMRV100F5SSP12		12 VDC	8.3 A	90%
UMRV100F5SSP15		15 VDC	6.67 A	90%
UMRV100F5SSP24		24 VDC	4.16 A	89%

Dimensions

Enclosure Type



UMFE SERIES



80 to 120 Watt DC - DC Converter

- ▶ 2 : 1 Ultra Wide Input Voltage Range
- ▶ 80 - 120W Isolated Output Power
- ▶ High-Density
- ▶ Open-Frame
- ▶ Standard 1/8 Brick Package
- ▶ Multilayer Type & AL base plate Type & Enclosure Type
- ▶ Safety Approvals Pending



Specifications

Voltage Accuracy	±1% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	5V 100 mV P-P max. 12 - 15V 150 mV P-P max.
Isolation Voltage	2250 VDC
Operating Temperature Range	-40°C to +105°C

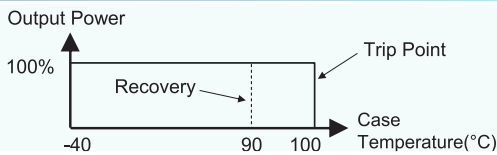
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFE080M1SSP05	24 VDC (18-36 VDC)	5	16	89%
UMFE080M1SSP12		12	6.67	91%
UMFE080M1SSP15		15	5.33	91%
UMFE100M1SSP05		5	20	88%
UMFE120M1SSP12		12	10	90%
UMFE120M1SSP15		15	8	90%
UMFE080M2SSP05	48 VDC (36-75 VDC)	5	16	90%
UMFE080M2SSP12		12	6.67	92%
UMFE080M2SSP15		15	5.33	92%
UMFE100M2SSP05		5	20	90%
UMFE120M2SSP12		12	10	92%
UMFE120M2SSP15		15	8	92%

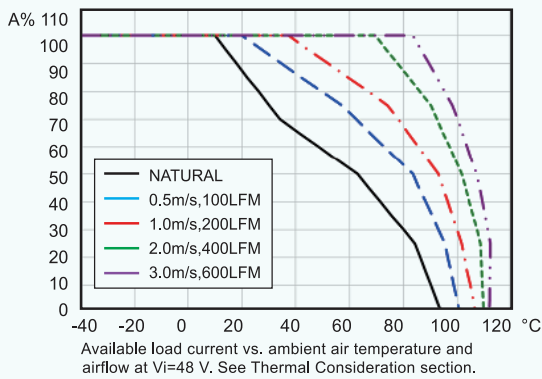
Pin Connections

PIN	Function	PIN	Function
1	+Vin	5	-Vsense
2	On / Off Control	6	Trim
3	-Vin	7	+Vsense
4	-Vout	8	+Vout

Hot Spot v.s. AL Baseplate Temperature Curve

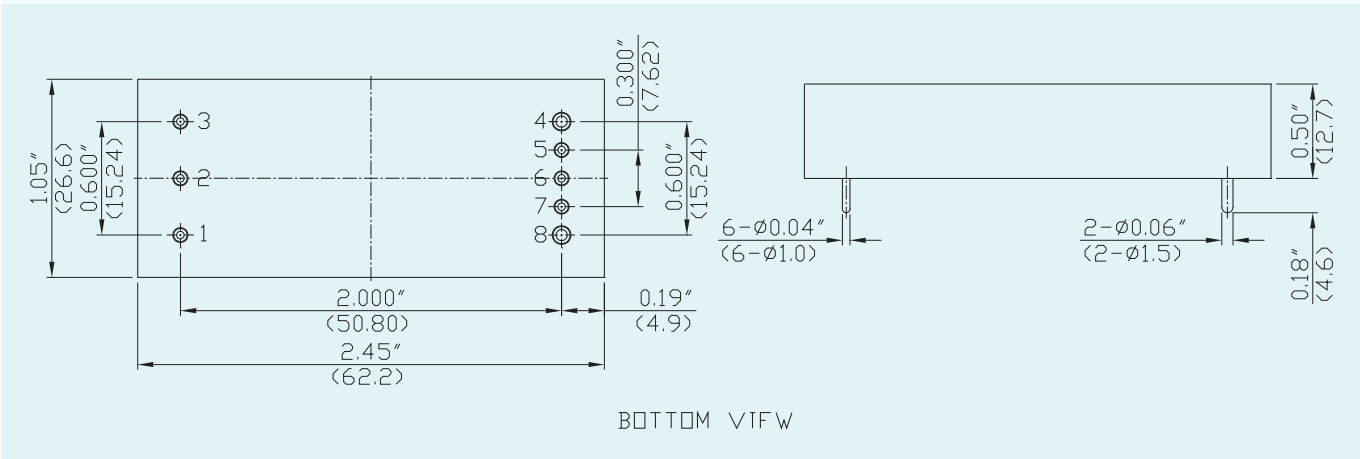


Output Current Derating



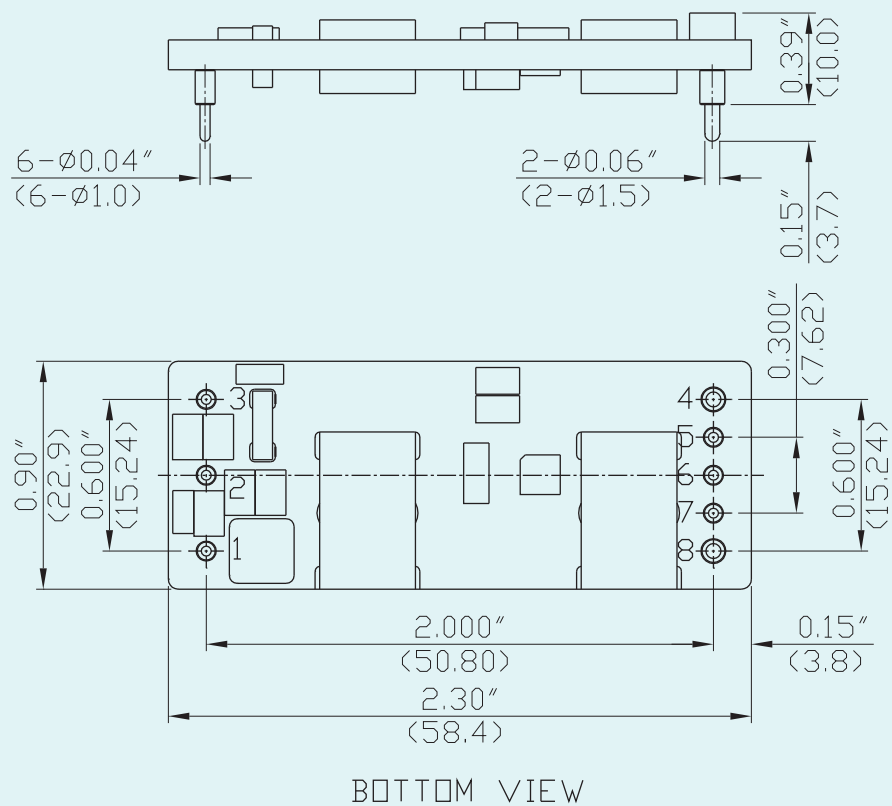
Dimensions

Enclosure Type

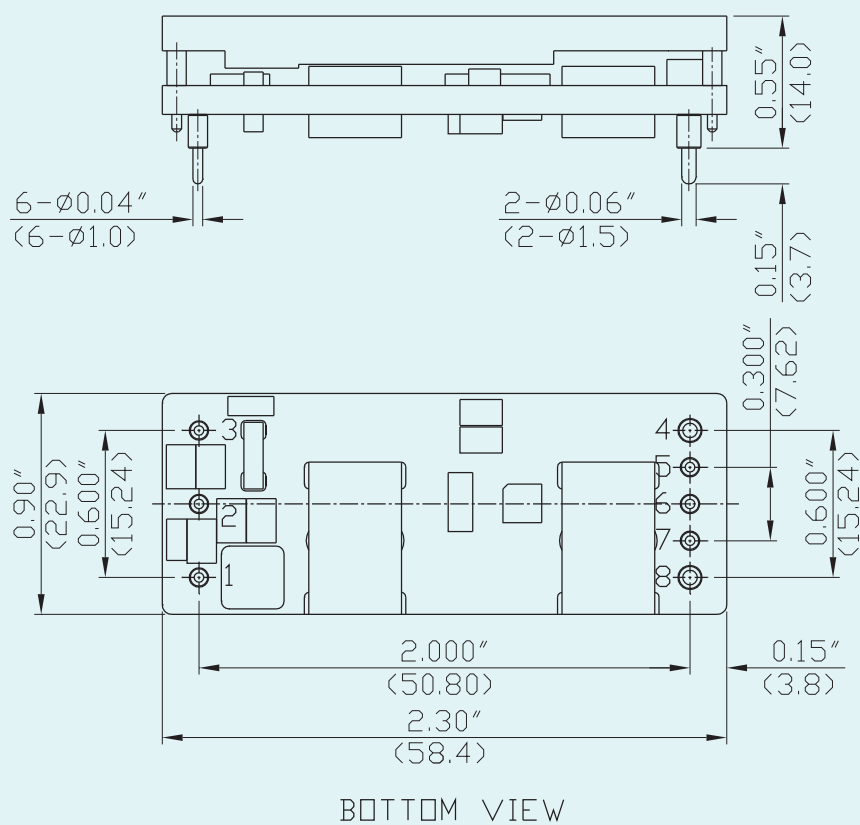


Dimensions

Multilayer Type



AL Base Plate Type

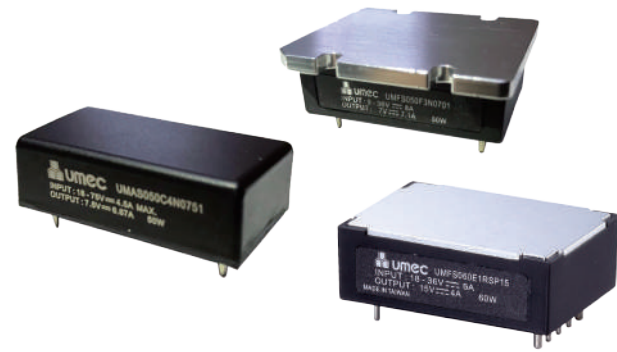


UMFS SERIES

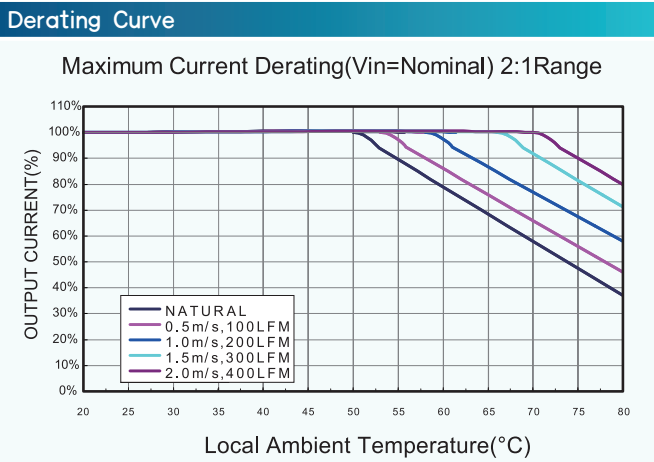
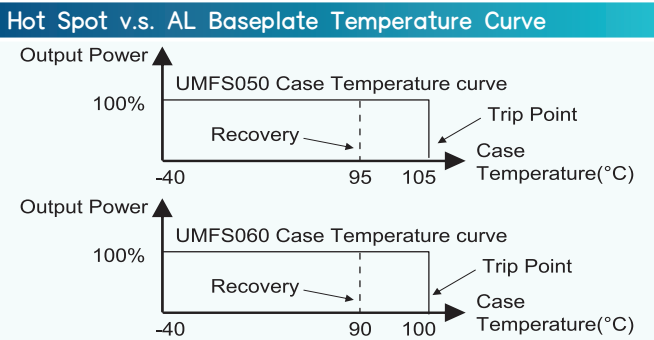


50 - 66 Watt DC - DC Converter

- ▶ 2 : 1、4 : 1 Ultra Wide Input Voltage Range
- ▶ 50-66 W Isolated Output Power
- ▶ High-Density
- ▶ Enclosure type
- ▶ Standard 1/16 Brick Package
- ▶ 1600、2250VDC input to output basic insulation
- ▶ RoHS Compliant



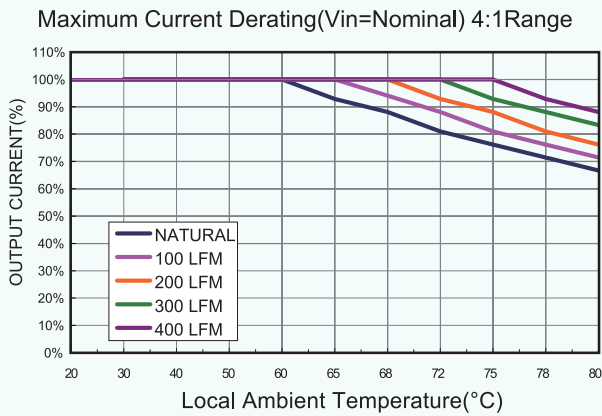
Specifications	
Voltage Accuracy	±2% max.
Line Regulation	±1% max.
Load Regulation	±2% max.
Ripple & Noise	150 mV P-P max.
Isolation Voltage	
a.) 2 : 1 Range	1600 VDC
b.) 4 : 1 Range	2250 VDC
Operating Temperature Range	-40°C to + 110°C



Pin Connections			
PIN	Function	PIN	Function
1	+Vin	5	-Sense
2	On / Off Control	6	Trim
3	-Vin	7	+Sense
4	-Vout	8	+Vout

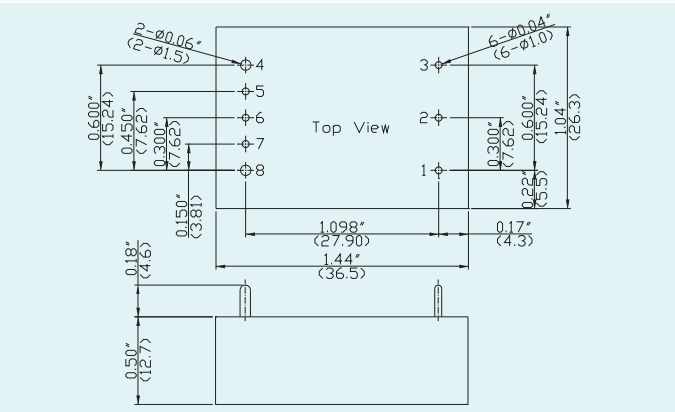
Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMFS050E3RSP03	9-36 VDC	3.3VDC	12A@ 9-18VDC 15A@18-36VDC	88 %@12 VDC 90 %@24 VDC	UL, CUL, CB
UMFS050E3RSP05		5VDC	8A@ 9-18VDC 10A@18-36VDC	88 %@12 VDC 90 %@24 VDC	UL, CUL, CB
UMFS050E3RSP12		12 VDC	3.5A@ 9-18VDC 4.2A@18-36VDC	86 %@12 VDC 88 %@24 VDC	UL, CUL, CB
UMFS050E3RSP15		15VDC	2.8A@ 9-18VDC 3.4A@18-36VDC	86 %@12 VDC 88 %@24 VDC	UL, CUL, CB
UMFS050E3RSP24		24VDC	1.8A@ 9-18VDC 2.1A@18-36VDC	90 %@12 VDC 91 %@24 VDC	UL, CUL, CB
UMFS050E3RSP28		28VDC	1.5A@ 9-18VDC 1.8A@18-36VDC	91 %@12 VDC 92 %@24 VDC	Pending
UMFS050E4RSP03	18-75 VDC	3.3VDC	12A@18-36VDC 15A@36-75VDC	89 %@24 VDC 90 %@48 VDC	UL, CUL, CB
UMFS050E4RSP05		5VDC	8A@18-36VDC 10A@36-75VDC	89 %@24 VDC 90 %@48 VDC	UL, CUL, CB
UMFS050E4RSP12		12VDC	3.5A@18-36VDC 4.2A@36-75VDC	88 %@24 VDC 90 %@48 VDC	UL, CUL, CB
UMFS050E4RSP15		15VDC	2.8A@18-36VDC 3.4A@36-75VDC	88 %@24 VDC 90 %@48 VDC	UL, CUL, CB
UMFS050E4RSP24		24VDC	1.8A@18-36VDC 2.1A@36-75VDC	90 %@24 VDC 91 %@48 VDC	UL, CUL, CB
UMFS050E4RSP28		28VDC	1.5A@18-36VDC 1.8A@36-75VDC	91 %@24 VDC 92 %@48 VDC	Pending
UMFS060E1RSP03	18-36 VDC	3.3VDC	20A	87%	Pending
UMFS060E1RSP05		5 VDC	12A	89%	Pending
UMFS060E1RSP12		12 VDC	5A	90%	Pending
UMFS060E1RSP15		15 VDC	4A	90%	Pending
UMFS060E1RSP24		24 VDC	2.5A	91%	Pending
UMFS060E1RSP28		28 VDC	2.15A	91%	Pending
UMFS066E2RSP03	36-75 VDC	3.3VDC	20 A	88%	Pending
UMFS060E2RSP05		5 VDC	12 A	90%	Pending

Derating Curve



Dimensions

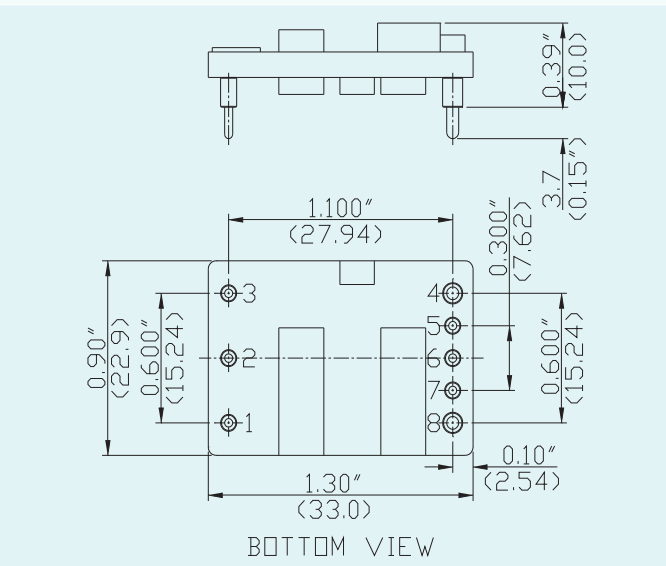
Enclosure Type (Pin Length : 0.18")



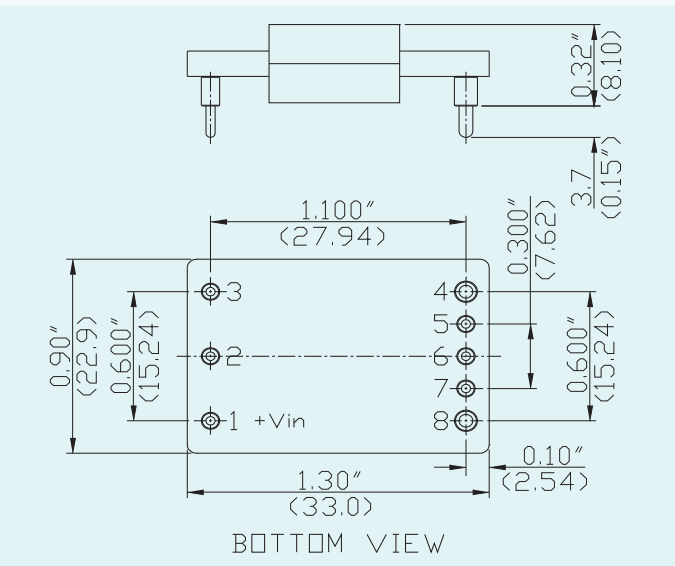
Dimensions

Multilayer Type (Pin Length : 0.15")

2 : 1 Range

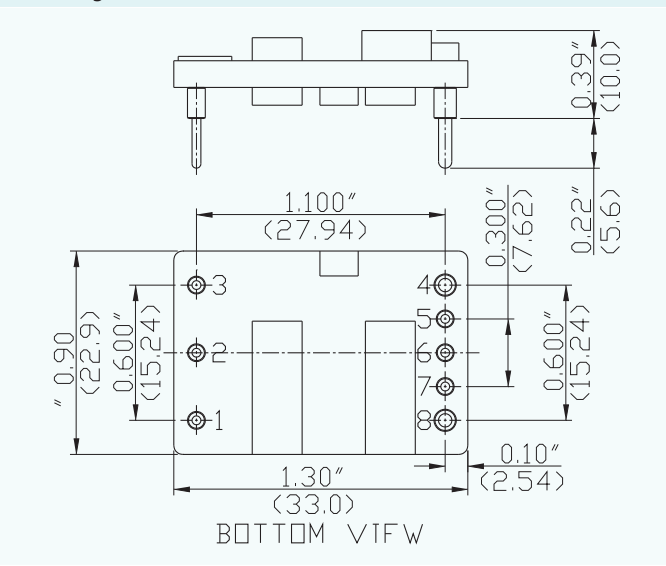


4 : 1 Range

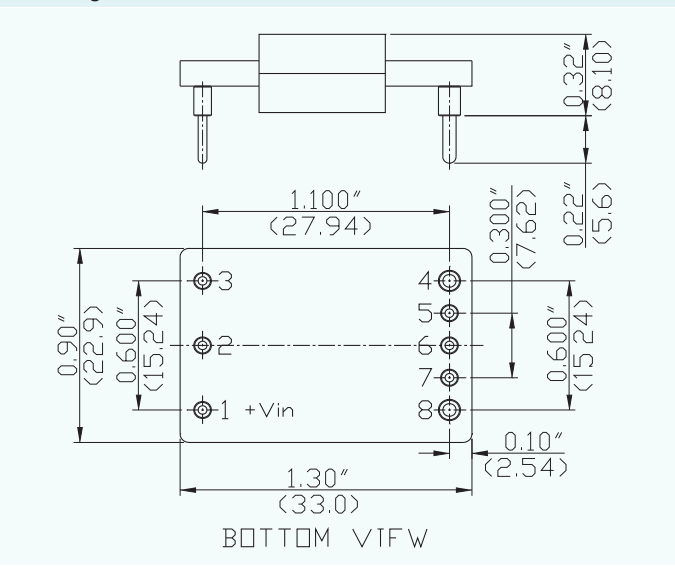


Multilayer Type (Pin Length : 0.22")

2 : 1 Range



4 : 1 Range



UMFU030 SERIES



30 Watt DC - DC Converters

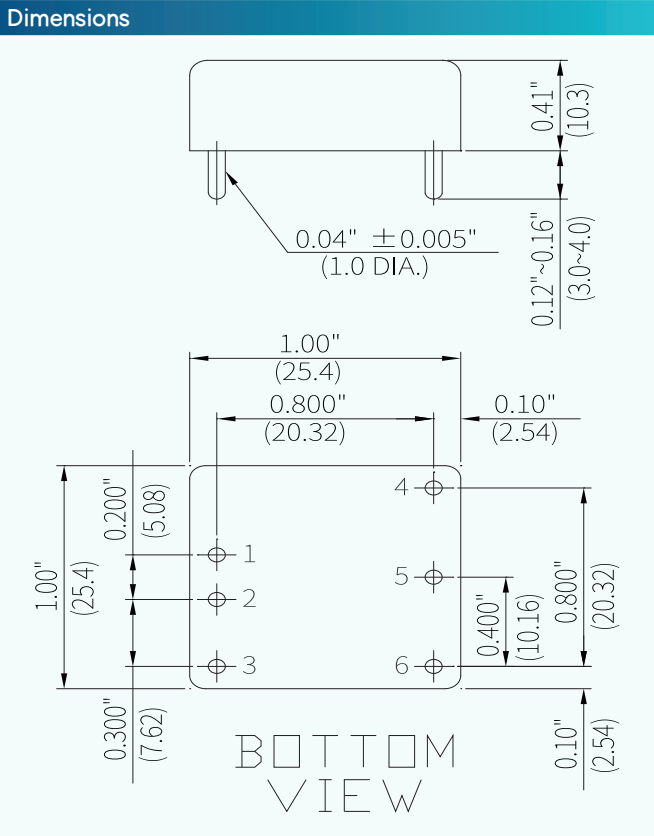
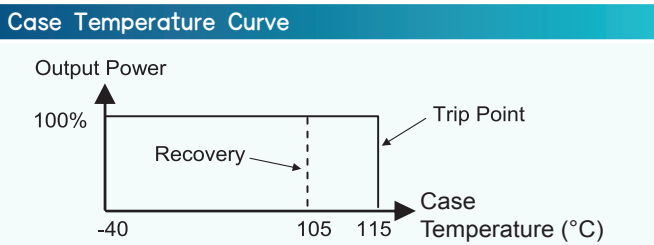
- ▶ 4 : 1 Input Range
- ▶ High Efficiency up to 90%
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control
- ▶ RoHS Compliant



Specifications		
Voltage Accuracy	±1% max.	
Line Regulation	±0.2% max.	
Load Regulation	±1.0% max.	
Ripple and Noise	3.3V, 5V	100 mV P-P max.
	12V, 15V	150 mV P-P max.
	24V, 28V	300 mV P-P max.
	48V, 54V	500 mV P-P max.
Isolation Voltage	1500VDC	
Operating Temperature Range	-40°C to +115°C (Case 115°C TYP)	

Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMFU030E3SSP03	24 VDC (9-36V)	3.3 VDC	8 A	87%	UL, CUL, CB
UMFU030E3SSP05		5.0 VDC	6.0 A	90%	UL, CUL, CB
UMFU030E3SSP12		12 VDC	2.5 A	90%	UL, CUL, CB
UMFU030E3SSP15		15 VDC	2.0 A	90%	UL, CUL, CB
UMFU030E3SSP24		24 VDC	1.25 A	90%	UL, CUL, CB
UMFU030E3SSP28		28 VDC	1.07 A	90%	UL, CUL, CB
UMFU030E3SSP48		48 VDC	0.625 A	89%	UL, CUL, CB
UMFU030E3SSP54		54 VDC	0.463 A	89%	UL, CUL, CB
UMFU030E4SSP03	48 VDC (18-75V)	3.3 VDC	8 A	87%	UL, CUL, CB
UMFU030E4SSP05		5.0 VDC	6.0 A	90%	UL, CUL, CB
UMFU030E4SSP12		12 VDC	2.5 A	90%	UL, CUL, CB
UMFU030E4SSP15		15 VDC	2.0 A	90%	UL, CUL, CB
UMFU030E4SSP24		24 VDC	1.25 A	90%	UL, CUL, CB
UMFU030E4SSP28		28 VDC	1.07 A	90%	UL, CUL, CB
UMFU030E4SSP48		48 VDC	0.625 A	89%	UL, CUL, CB
UMFU030E4SSP54		54 VDC	0.463 A	89%	UL, CUL, CB

Pin Connections			
PIN	Single	PIN	Single
1	+Input	4	+Output
2	-Input	5	Trim
3	On/Off Control	6	-Output



UMFU025 SERIES

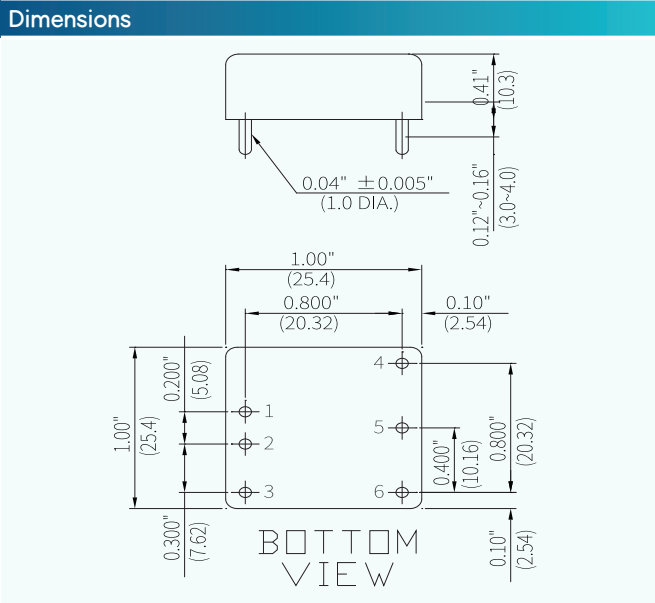
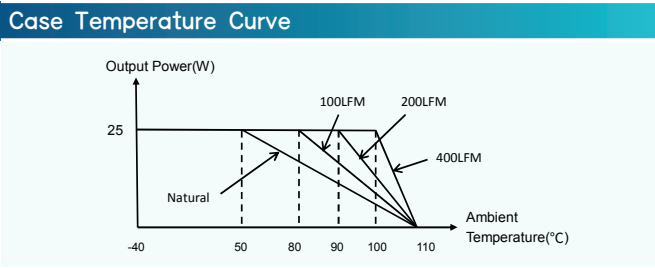


25 Watt DC - DC Converters

- ▶ 4:1 Input Range
- ▶ High Efficiency up to 90%
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control



Specifications	
Voltage Accuracy	±1% max.
Line Regulation	±0.2% max.
Load Regulation	±1% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 - 15V 150 mV P-P max. 24 - 28V 300 mV P-P max. 48 - 54V 500 mV P-P max.
Isolation Voltage	1500VDC
Operating Temperature Range	-40°C to +40°C (None Derating)



Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UMFU025E3SSP03	9-36 VDC (24 VDC)	3.3 VDC	6 A	87%	UL, CUL, CB
UMFU025E3SSP05		5 VDC	5 A	90%	UL, CUL, CB
UMFU025E3SSP12		12 VDC	2.08 A	90%	UL, CUL, CB
UMFU025E3SSP15		15 VDC	1.66 A	90%	UL, CUL, CB
UMFU025E3SSP24		24 VDC	1.04 A	90%	UL, CUL, CB
UMFU025E3SSP28		28 VDC	0.89 A	90%	UL, CUL, CB
UMFU025E3SSP48		48 VDC	0.52 A	89%	UL, CUL, CB
UMFU025E3SSP54		54 VDC	0.463 A	89%	UL, CUL, CB
UMFU025E4SSP03	18-75 VDC (48 VDC)	3.3 VDC	6 A	87%	UL, CUL, CB
UMFU025E4SSP05		5 VDC	5 A	90%	UL, CUL, CB
UMFU025E4SSP12		12 VDC	2.08 A	90%	UL, CUL, CB
UMFU025E4SSP15		15 VDC	1.66 A	90%	UL, CUL, CB
UMFU025E4SSP24		24 VDC	1.04 A	90%	UL, CUL, CB
UMFU025E4SSP28		28 VDC	0.89 A	90%	UL, CUL, CB
UMFU025E4SSP48		48 VDC	0.52 A	89%	UL, CUL, CB
UMFU025E4SSP54		54 VDC	0.463 A	89%	UL, CUL, CB

Pin Connections			
PIN	Single	PIN	Single
1	+Input	4	+Output
2	-Input	5	Trim
3	On/Off Control	6	-Output

UMFU025E9 SERIES



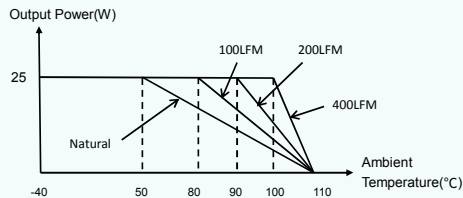
25 Watt DC - DC Converter

- ▶ 8:1 Input Range
- ▶ High Efficiency up to 88%
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control



Specifications		
Voltage Accuracy		±1% max.
Line Regulation		±1% max.
Load Regulation		±1% max.
Ripple and Noise	5V	100 mV P-P max.
	12V - 15V	150 mV P-P max.
	24V	300 mV P-P max.
Isolation Voltage		1500VDC
Operating Temperature Range		-40°C to +40°C (None Derating)

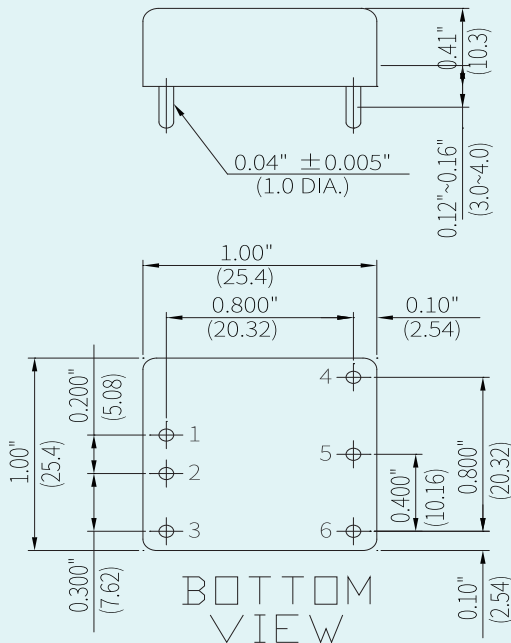
Hot Spot v.s. AL Baseplate Temperature Curve



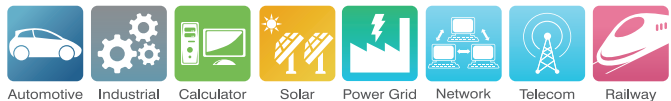
Pin Connections			
PIN	Single	PIN	Single
1	+Input	4	+Output
2	-Input	5	Trim
3	On/Off Control	6	-Output

Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFU025E9SSP05	9-75 VDC (48VDC)	5.0 VDC	5.0 A	87%
UMFU025E9SSP12		12 VDC	2.08 A	88%
UMFU025E9SSP15		15 VDC	1.67 A	88%
UMFU025E9SSP24		24 VDC	1.04 A	88%

Dimensions



UMRU025 SERIES



25 Watt DC - DC Converters

- ▶ 4 : 1 Input Range
- ▶ High Efficiency up to 89%
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control
- ▶ RoHS Compliant
- ▶ Safety Approval Pending



Specifications

Voltage Accuracy	±1% max.
Line Regulation	±0.2% max.
Load Regulation	±1% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 - 15V 150 mV P-P max. 24 - 28V 200 mV P-P max. 48 - 54V 300 mV P-P max.
Isolation Voltage	3000 VDC
Operating Temperature Range	-40°C to + 110°C
Operating Temperature None Derating	-40°C to +50°C (None Derating)
Over Temperature Protection	Case 115°C TYP.

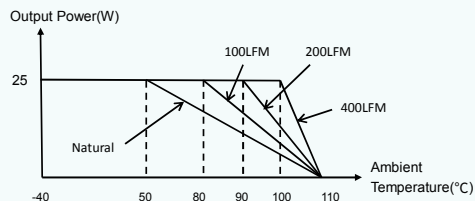
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMRU025E5SSP03	110 VDC (43-160V)	3.3 VDC	7.58 A	86%
UMRU025E5SSP05		5 VDC	5.0 A	87%
UMRU025E5SSP12		12 VDC	2.09 A	89%
UMRU025E5SSP15		15 VDC	1.67 A	88%
UMRU025E5SSP24		24 VDC	1.04 A	89%
UMRU025E5SSP28		28 VDC	0.89 A	89%
UMRU025E5SSP48		48 VDC	0.52 A	89%
UMRU025E5SSP54		54 VDC	0.463 A	89%

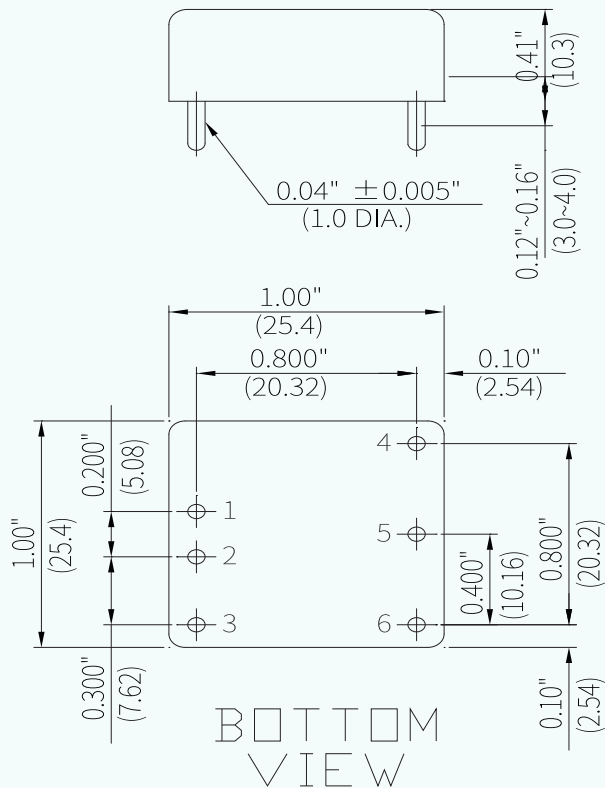
Pin Connections

PIN	Single	PIN	Single
1	+Input	4	+Output
2	-Input	5	Trim
3	On/Off Control	6	-Output

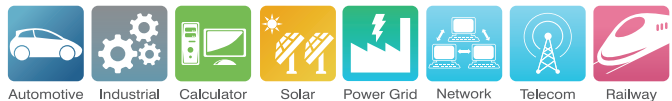
Case Temperature Curve



Dimensions



UM8600W SERIES



15 Watt DC - DC Converter

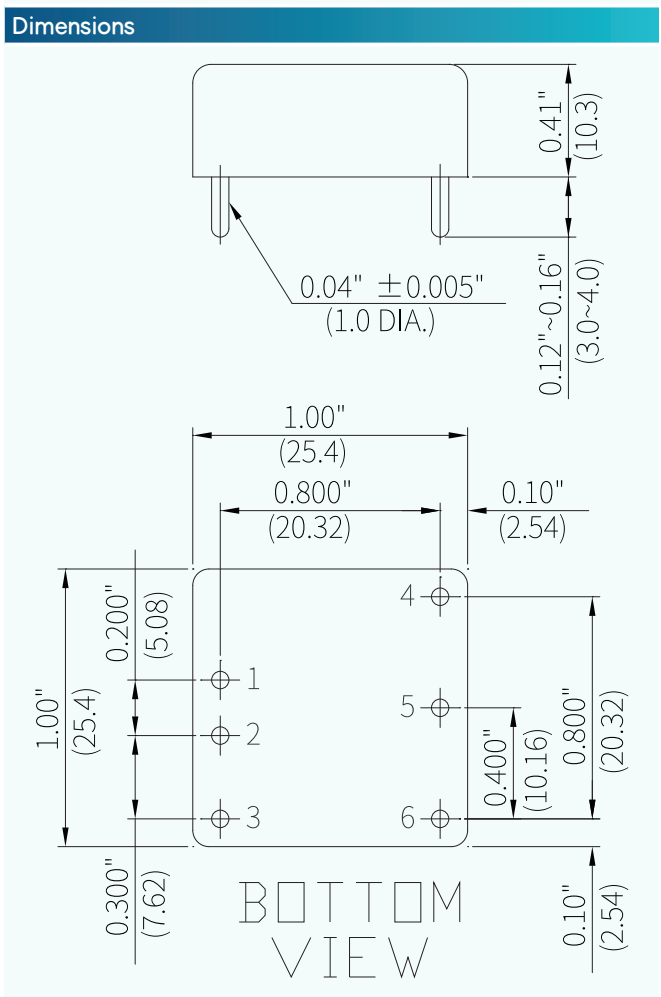
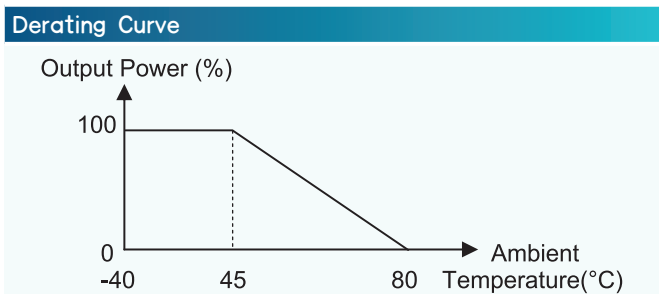
- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ High Efficiency up to 89%
- ▶ Standard 1" x 1" Package
- ▶ Enclosure type
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control
- ▶ RoHS Compliant
- ▶ 2:1 Input Voltage Range products are available as well (Please contact us for data sheet)



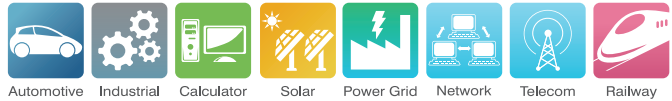
Specifications					
Voltage Accuracy		±1.2% max.			
Line Regulation		±0.2% max.			
Load Regulation	Single	±0.2% max.			
	Dual	±1.0% max.			
Ripple and Noise		75 mV P-P max.			
Isolation Voltage		1500 VDC			
Operating Temperature Range		-40°C to +100°C (With Derating)			

Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UM8613V3WS	9-36 VDC (24VDC)	3.3 VDC	4500 mA	87%	UL, CUL, CB
UM8615V0WS		5 VDC	3000 mA	88%	UL, CUL, CB
UM86112VWS		12 VDC	1250 mA	89%	UL, CUL, CB
UM86115VWS		15 VDC	1000 mA	89%	UL, CUL, CB
UM86112VWD		±12 VDC	±625 mA	86%	UL, CUL, CB
UM86115VWD		±15 VDC	±500 mA	86%	UL, CUL, CB
UM8623V3WS	18-75 VDC (48VDC)	3.3 VDC	4500 mA	87%	UL, CUL, CB
UM8625V0WS		5 VDC	3000 mA	88%	UL, CUL, CB
UM86212VWS		12 VDC	1250 mA	89%	UL, CUL, CB
UM86215VWS		15 VDC	1000 mA	88%	UL, CUL, CB
UM86212VWD		±12 VDC	±625 mA	86%	UL, CUL, CB
UM86215VWD		±15 VDC	±500 mA	86%	UL, CUL, CB

Pin Connections					
PIN	Single	Dual	PIN	Single	Dual
1	+Input	+Input	4	+Output	+Output
2	-Input	-Input	5	Trim	COM
3	On/Off Control		6	-Output	-Output



UMFB060 SERIES

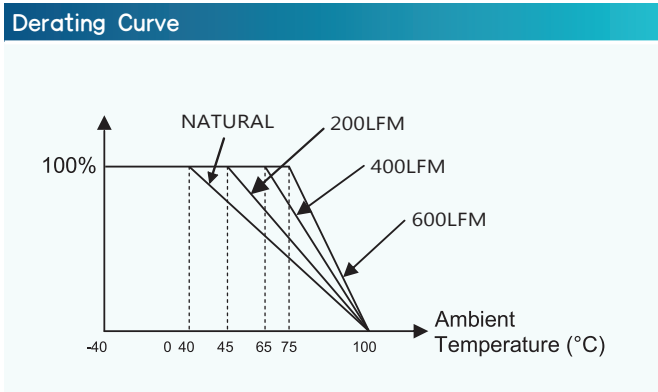


60 Watt DC - DC Converter

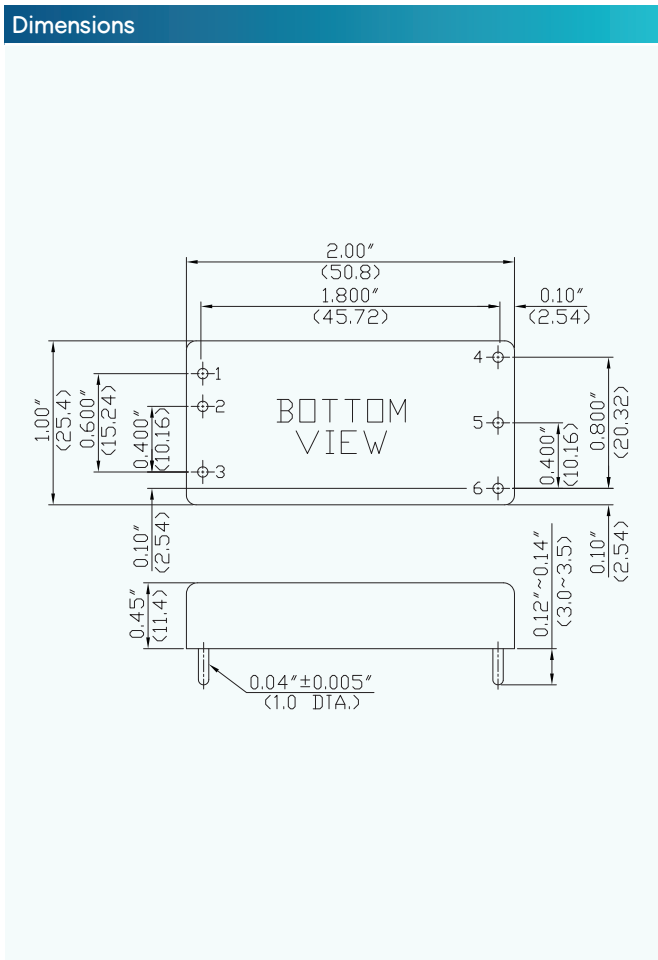
- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 91%
- ▶ Standard 2" x1" Package
- ▶ Over Temperature and Short Circuit Protection
- ▶ Safety Approval Pending



Specifications	
Voltage Accuracy	±1% max.
Line Regulation	±0.5% max.
Load Regulation	±1.0% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max.
	9 - 15V 150 mV P-P max.
	24 - 54V 200 mV P-P max.
Isolation Voltage	
a) Input to Output	1600 VDC
b) Input to Case	1600 VDC
c) Output to Case	1600 VDC
Operating Temperature	-40°C to + 100°C (With Derating)



Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMFB060E3SSP03	9-36 VDC (24VDC)	3.3 VDC	12.0 A	88
UMFB060E3SSP05		5.0 VDC	12.0 A	88
UMFB060E3SSP09		9.0 VDC	6.67 A	90
UMFB060E3SSP12		12 VDC	5 A	91
UMFB060E3SSP15		15 VDC	4.0 A	91
UMFB060E3SSP24		24 VDC	2.5 A	91
UMFB060E3SSP28		28 VDC	2.14 A	91
UMFB060E3SSP36		36 VDC	1.67 A	91
UMFB060E3SSP48		48 VDC	1.25 A	91
UMFB060E3SSP54		54 VDC	1.11 A	91
UMFB060E4SSP03	18-75 VDC (48VDC)	3.3 VDC	12.0 A	88
UMFB060E4SSP05		5.0 VDC	12.0 A	88
UMFB060E4SSP09		9.0 VDC	6.67 A	90
UMFB060E4SSP12		12 VDC	5.0 A	91
UMFB060E4SSP15		15 VDC	4.0 A	91
UMFB060E4SSP24		24 VDC	2.5 A	91
UMFB060E4SSP28		28 VDC	2.14 A	91
UMFB060E4SSP36		36 VDC	1.67 A	91
UMFB060E4SSP48		48 VDC	1.25 A	91
UMFB060E4SSP54		54 VDC	1.11 A	91



Pin Connections			
PIN	Function	PIN	Function
1	+Input	4	+Output
2	-Input	5	-Output
3	On / Off Control	6	Trim

UMFB040E9 SERIES



40 Watt DC-DC Converter

- ▶ 8:1 Input Range
- ▶ High Efficiency up to 91%
- ▶ Low Standby Input Current Under 10mA
- ▶ Over Temperature protection
- ▶ Short circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control

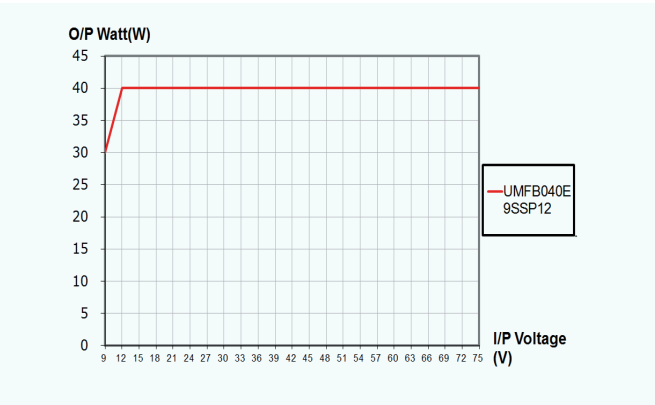


Specifications	
Voltage Accuracy	±1% max.
Line Regulation	±1% max.
Load Regulation	±1% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max.
	12 - 15V 150 mV P-P max.
	24 V 300 mV P-P max.
Isolation Voltage	2250 VDC
Operating Temperature	-40°C to +40°C (None Derating)

Models						
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Input Current Full Load (A max.)	Input Current Full Load (A max.)	Safety
UMFB040E9SSP03	9-75 VDC (48 VDC)	3.3 VDC	9.1 A	1.44 A	87 %@24 VDC	Pending
				0.73 A	87 %@48 VDC	Pending
UMFB040E9SSP05		5.0 VDC	8.0 A	1.89 A	88 %@24 VDC	Pending
				0.96 A	89 %@48 VDC	Pending
UMFB040E9SSP12		12 VDC	3.33 A	3.91 A	87 %@12 VDC	UL, CUL, CB
				1.87 A	90 %@24 VDC	UL, CUL, CB
		15 VDC	2.67 A	0.95 A	91 %@48 VDC	UL, CUL, CB
UMFB040E9SSP15				1.87 A	89 %@24 VDC	Pending
		24 VDC	1.67 A	0.95 A	90 %@48 VDC	Pending
UMFB040E9SSP24				3.75 A	87 %@12 VDC	Pending
				1.87 A	89 %@24 VDC	Pending
				0.92 A	91 %@48 VDC	Pending

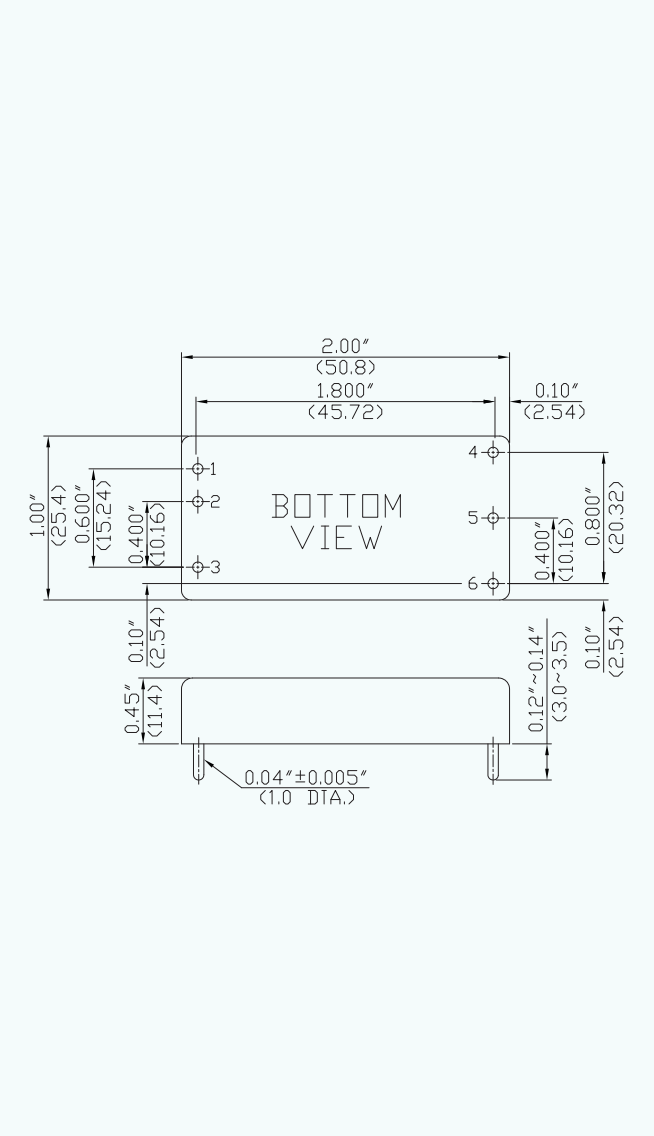
Derating Curve

Derating Curve(Other Model/3.3v,5v,15v,24v: TBD)



Pin Connections			
PIN	Function	PIN	Function
1	+Input	4	+Output
2	-Input	5	-Output
3	On / Off Control	6	Trim

Dimensions



UM6700W SERIES



20 Watt DC - DC Converter

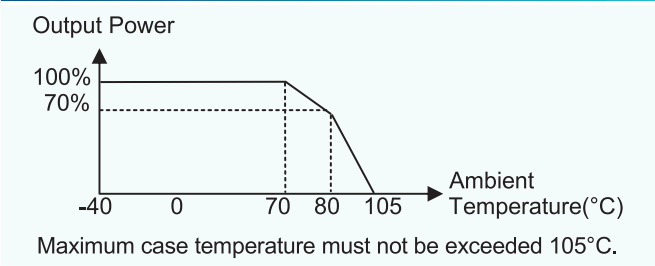
- ▶ Synchronous Rectifier Topology
- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 88%
- ▶ Standard 2" × 1" Package
- ▶ Enclosure type
- ▶ Over Temperature and Short Circuit Protection
- ▶ 2:1 Input Voltage Range products are available as well (Please contact us for data sheet)



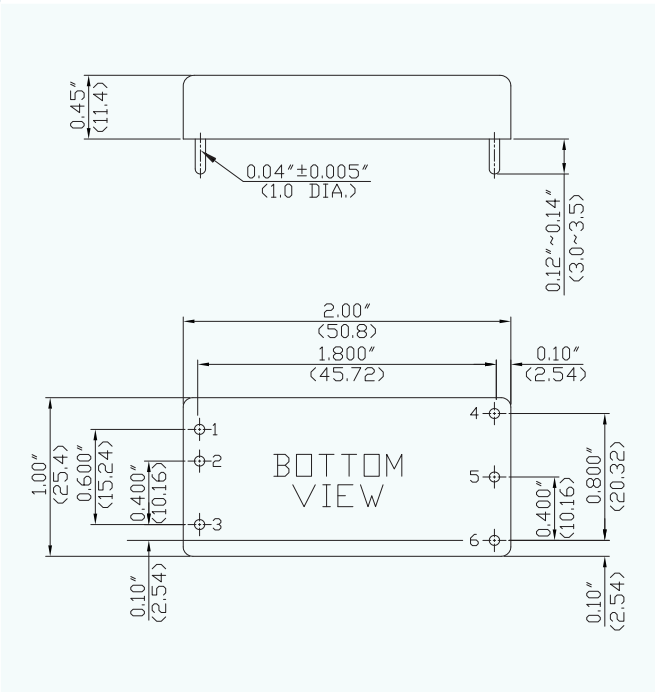
Specifications

Voltage Accuracy		±1% max.
Line Regulation		±0.5% max.
Load Regulation	Single	±0.5% max.
	Dual	±1% max.
Ripple and Noise		3.3 - 15V 100 mV P-P max.
		24 - 48V 200 mV P-P max.
Isolation Voltage		1600VDC
Operating Temperature Range		-40°C to +100°C (With Derating)

Derating Curve



Dimensions



Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UM6713V3WS	9-36 VDC (24VDC)	3.3 VDC	5500 mA	86	Pending
UM6715V0WS		5 VDC	4000 mA	88	Pending
UM67112VWS		12 VDC	1670 mA	87	Pending
UM67115VWS		15 VDC	1330 mA	87	Pending
UM67124VWS		24 VDC	835 mA	87	Pending
UM67148VWS		48 VDC	420 mA	87	Pending
UM67112VWD		±12 VDC	±835 mA	87	Pending
UM67115VWD		±15 VDC	±665 mA	87	Pending
UM6723V3WS	18-75 VDC (48VDC)	3.3 VDC	5500 mA	86	Pending
UM6725V0WS		5 VDC	4000 mA	88	Pending
UM67212VWS		12 VDC	1670 mA	88	Pending
UM67215VWS		15 VDC	1330 mA	88	Pending
UM67224VWS		24 VDC	835 mA	88	Pending
UM67248VWS		48 VDC	420 mA	88	Pending
UM67212VWD		±12 VDC	±835 mA	88	Pending
UM67215VWD		±15 VDC	±665 mA	88	Pending
UM6733V3WS	43-160 VDC (110VDC)	3.3 VDC	5500 mA	86	Pending
UM6735V0WS		5 VDC	4000 mA	87	Pending
UM67312VWS		12 VDC	1670 mA	88	Pending
UM67315VWS		15 VDC	1330 mA	88	Pending
UM67312VWD		±12 VDC	±835 mA	88	Pending
UM67315VWD		±15 VDC	±665 mA	88	Pending

Pin Connections

PIN	Single	Dual	PIN	Single	Dual
1	+Input	+Input	4	+Output	+Output
2	-Input	-Input	5	-Output	COM
3	On / Off Control		6	Trim	-Output

UM6600 SERIES

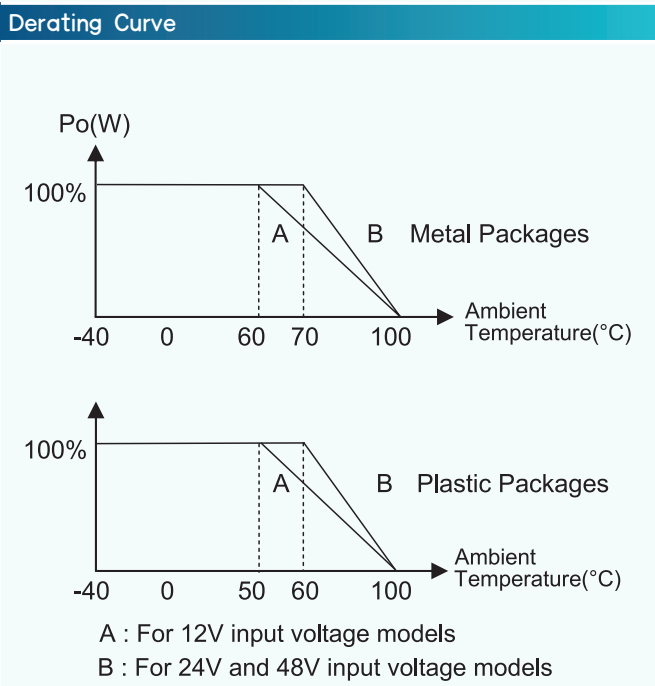


7.5 - 15 Watt DC - DC Converter

- ▶ Remote On / Off Control
- ▶ Low cost; High Efficiency
- ▶ Standard 2" × 1" Package and Pinouts
- ▶ Over Temperature Protection
- ▶ Continuous Short Circuit Protection
- ▶ RoHS Compliant



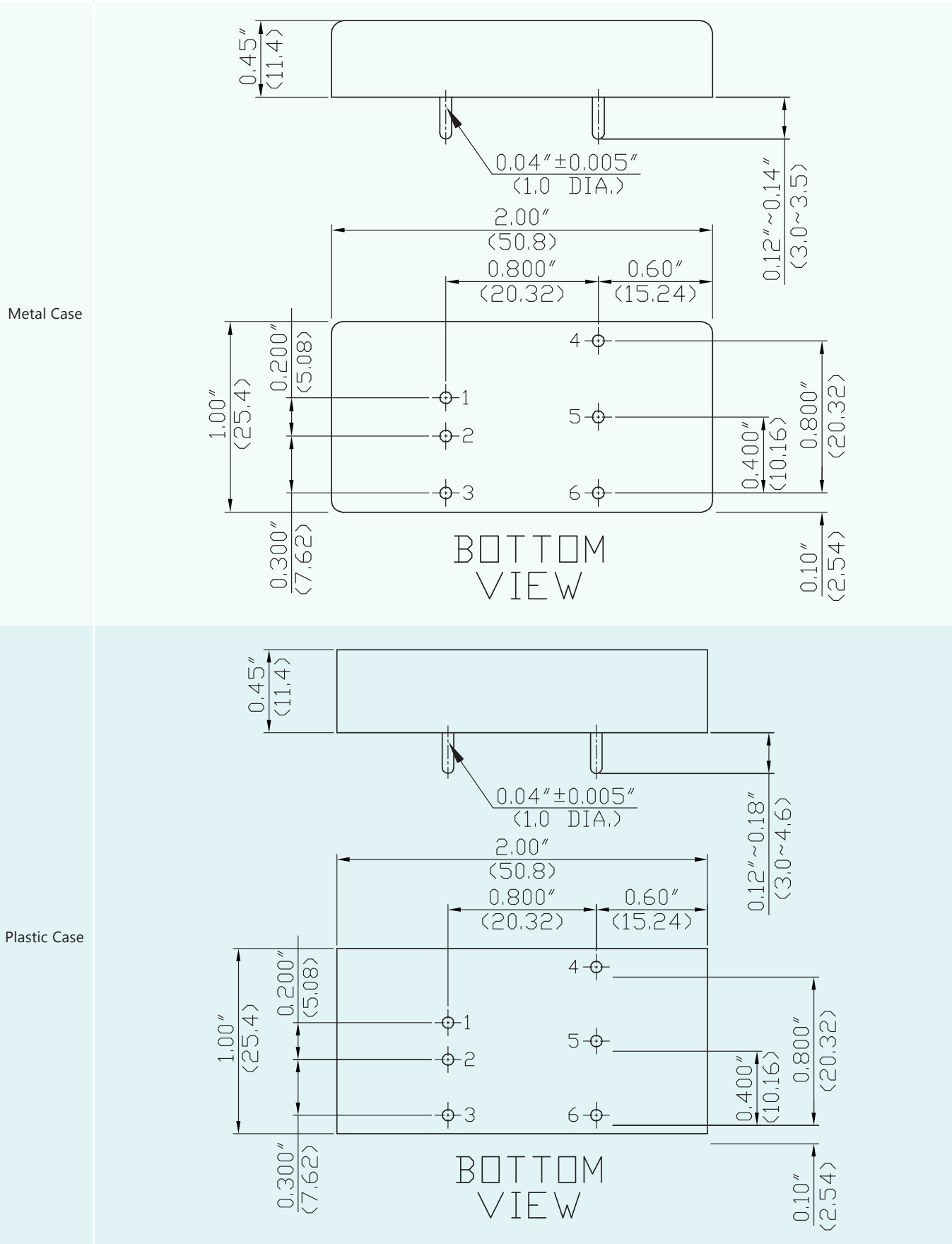
Specifications			
Voltage Accuracy		±1% max.	
Line Regulation		±0.5% max.	
Load Regulation	Single	1.5 - 3.3V ±0.5% typ. ±1%max. 5.0V - 15V ±0.5% max.	
	Dual	±0.5% typ. ±2.0% max.	
Ripple and Noise		100 mV P-P max.	
Isolation Voltage		1500VDC	
Operating Temperature Range		-40°C to +100°C (With Derating)	



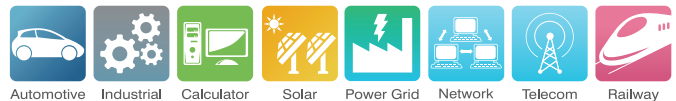
Pin Connections					
PIN	Single	Dual	PIN	Single	Dual
1	+Input	+Input	4	+Output	+Output
2	-Input	-Input	5	Trim	COM
3	On / Off Control		6	-Output	-Output

Models					
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UM6601V5S	10-18 VDC (12VDC)	1.5 VDC	5000 mA	71	UL, CUL
UM6602V0S		2.0 VDC	5000 mA	76	UL, CUL
UM6602V5S		2.5 VDC	5000 mA	78	UL, CUL
UM6603V3S		3.3 VDC	4500 mA	81	UL, CUL
UM6605V0S		5 VDC	3000 mA	83	UL, CUL
UM66012VS		12 VDC	1250 mA	86	UL, CUL
UM66015VS		15 VDC	1000 mA	86	UL, CUL
UM66012VD		±12VDC	±625 mA	86	UL, CUL
UM66015VD		±15VDC	±500 mA	86	UL, CUL
UM6611V5S	18-36 VDC (24VDC)	1.5 VDC	5000 mA	72	UL, CUL
UM6612V0S		2.0 VDC	5000 mA	77	UL, CUL
UM6612V5S		2.5 VDC	5000 mA	79	UL, CUL
UM6613V3S		3.3 VDC	4500 mA	82	UL, CUL
UM6615V0S		5.0 VDC	3000 mA	84	UL, CUL
UM66112VS		12 VDC	1250 mA	87	UL, CUL
UM66115VS		15 VDC	1000 mA	87	UL, CUL
UM66112VD		±12VDC	±625 mA	87	UL, CUL
UM66115VD		±15VDC	±500 mA	87	UL, CUL
UM6621V5S	36-75 VDC (48VDC)	1.5 VDC	5000 mA	73	UL, CUL
UM6622V0S		2.0 VDC	5000 mA	78	UL, CUL
UM6622V5S		2.5 VDC	5000 mA	80	UL, CUL
UM6623V3S		3.3 VDC	4500 mA	83	UL, CUL
UM6625V0S		5.0 VDC	3000 mA	85	UL, CUL
UM66212VS		12 VDC	1250 mA	87	UL, CUL
UM66215VS		15 VDC	1000 mA	87	UL, CUL
UM66212VD		±12VDC	±625 mA	87	UL, CUL
UM66215VD		±15VDC	±500 mA	87	UL, CUL

Dimensions



UM7700 SERIES



50 Watt DC - DC Converter

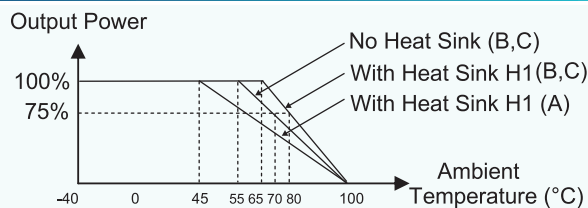
- ▶ Synchronous Rectifier Topology
- ▶ 2:1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 92%
- ▶ Standard 2" x 1.6" Package
- ▶ Over Temperature Protection
- ▶ Enclosure type
- ▶ Safety Approval Pending



Specifications

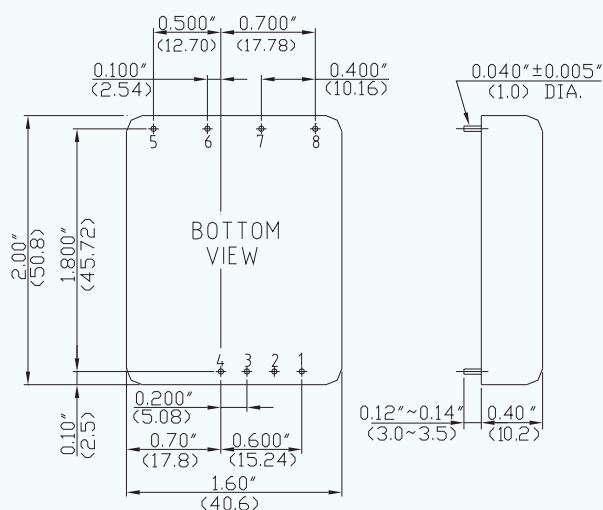
Voltage Accuracy		$\pm 1\%$ max.	
Line Regulation		$\pm 0.5\%$ max.	
Load Regulation	Single	3.3 - 5 V $\pm 1\%$ max. 12 V -15 V $\pm 0.5\%$ max.	
	Dual	$\pm 0.5\%$ max.	
Ripple and Noise		3.3 - 5V 100 mV P-P max.	
		12 - 15V 150 mV P-P max.	
Isolation Voltage		1500 VDC	
Operating Temperature Range		-40°C to $+100^{\circ}\text{C}$ (With Derating)	

Derating Curve



A : For 12V input voltage models
B : For 24V input voltage models
C : For 48V input voltage models

Dimensions



Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UM7703V3S	9-18 VDC (12VDC)	3.3 VDC	15.0 A	87
UM7705V0S		5.0 VDC	10.0 A	88
UM77012VS		12 VDC	4.16 A	89
UM77015VS		15 VDC	3.3 A	89
UM77012VD		± 12 VDC	± 2.08 A	87
UM77015VD		± 15 VDC	± 1.66 A	87
UM7713V3S	18-36 VDC (24VDC)	3.3 VDC	15.0 A	89
UM7715V0S		5.0 VDC	10.0 A	91
UM77112VS		12 VDC	4.16 A	91
UM77115VS		15 VDC	3.3 A	92
UM77112VD		± 12 VDC	± 2.08 A	88
UM77115VD		± 15 VDC	± 1.66 A	88
UM7723V3S	36-75 VDC (48VDC)	3.3 VDC	15.0 A	89
UM7725V0S		5.0 VDC	10.0 A	91
UM77212VS		12 VDC	4.16 A	92
UM77215VS		15 VDC	3.3 A	92
UM77212VD		± 12 VDC	± 2.08 A	89
UM77215VD		± 15 VDC	± 1.66 A	89

Pin Connections

PIN	Single	Dual	PIN	Single	Dual
1	On / Off Control	5	No Pin	+Output	
2	No Pin	6	+ Output	COM	
3	-Input	-Input	7	-Output	-Output
4	+ Input	+ Input	8	Trim	

UM7700W SERIES

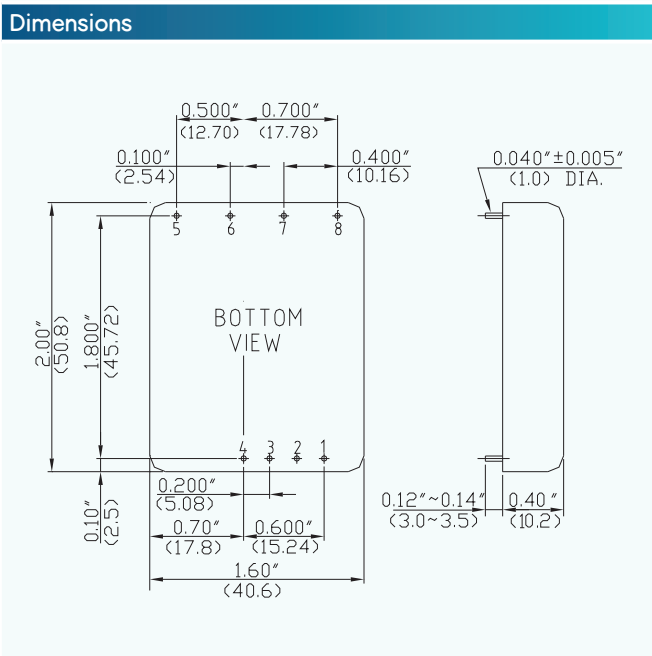
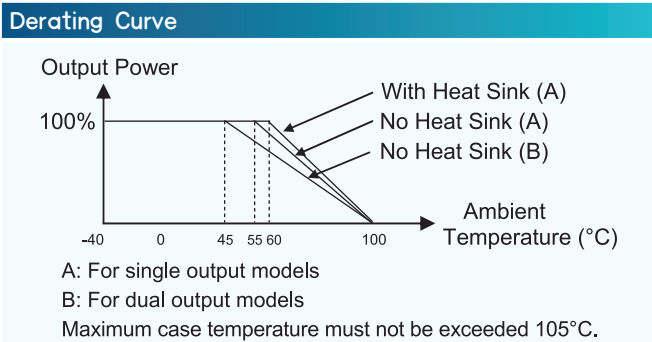


40 Watt DC - DC Converter

- ▶ Synchronous Rectifier Topology
- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 90%
- ▶ Standard 2" x 1.6" Package
- ▶ Enclosure type
- ▶ Over Temperature Protection
- ▶ Safety Approval Pending



Specifications				
Voltage Accuracy		±1% max.		
Line Regulation		±0.5% max.		
Load Regulation	Single	3.3V - 5V	±1% max.	
		12V - 15V	±0.5% max.	
	Dual	±0.5% max.		
Ripple and Noise		3.3V - 5V	100 mV P-P max.	
		12V - 15V	150 mV P-P max.	
Isolation Voltage		1500 VDC		
Operating Temperature Range		-40°C to + 100°C (With Derating)		



Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UM7713V3WS	9-36 VDC (24VDC)	3.3 VDC	12.0 A	89
UM7715V0WS		5.0 VDC	8.0 A	90
UM77112VWS		12 VDC	3.3 A	90
UM77115VWS		15 VDC	2.66 A	89
UM77112VWD		±12 VDC	±1.65 A	86
UM77115VWD		±15 VDC	±1.33 A	86
UM7723V3WS	18-75VDC (48VDC)	3.3 VDC	12.0 A	89
UM7725V0WS		5.0 VDC	8.0 A	90
UM77212VWS		12 VDC	3.3 A	90
UM77215VWS		15 VDC	2.66 A	89
UM77212VWD		±12 VDC	±1.65 A	86
UM77215VWD		±15 VDC	±1.33 A	86
UM7733V3WS	43-160 VDC (110VDC)	3.3 VDC	12.0 A	89
UM7735V0WS		5.0 VDC	8.0 A	90
UM77312VWS		12 VDC	3.3 A	90
UM77315VWS		15 VDC	2.66 A	89
UM77312VWD		±12 VDC	±1.65 A	86
UM77315VWD		±15 VDC	±1.33 A	86

Pin Connections					
PIN	Single	Dual	PIN	Single	Dual
1	On / Off Control		5	No Pin	+Output
2	No Pin		6	+ Output	COM
3	-Input	-Input	7	-Output	-Output
4	+ Input	+ Input	8	Trim	

UM7400 SERIES



60 Watt DC - DC Converter

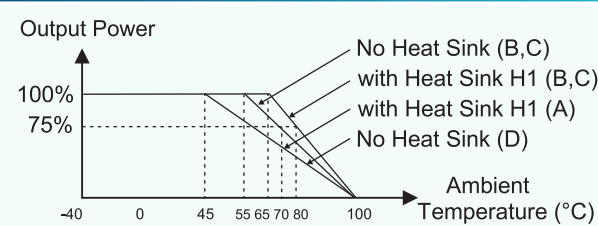
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control
- ▶ 2:1 Ultra Wide Input Voltage Range
- ▶ Efficiency up to 90%
- ▶ Standard 2" × 2" Package
- ▶ Enclosure type
- ▶ Over Temperature Protection
- ▶ Safety Approval Pending



Specifications

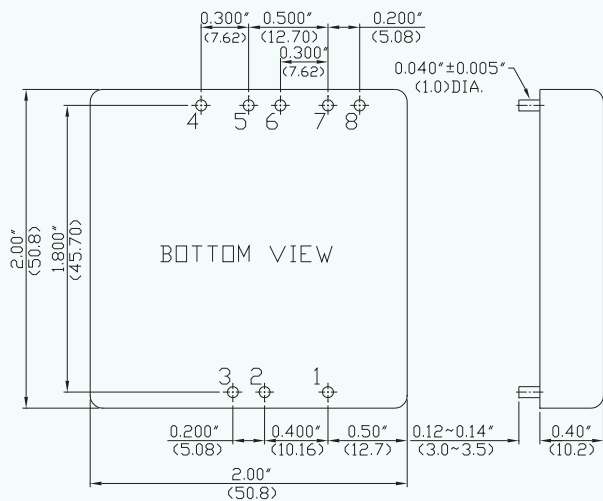
Voltage Accuracy	±1% max.
Line Regulation	±0.5% max.
Load Regulation	±0.5% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 - 15V 150 mV P-P max.
Isolation Voltage	1500 VDC
Operating Temperature	-40°C to + 100°C (With Derating)

Derating Curve



A: For single output models(12Vin)
B: For single output models(24Vin)
C: For single output models(48Vin)
D: For dual output models(12, 24, 48Vin)
Maximum case temperature must not be exceeded 105°C.

Dimensions



Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UM7403V3S	9-18 VDC (12VDC)	3.3 VDC	15.0 A	87
UM7405V0S		5 VDC	12.0 A	88
UM74012VS		12 VDC	5.0 A	89
UM74015VS		15 VDC	4.0 A	89
UM74012VD		±12 VDC	±2.5 A	87
UM74015VD		±15 VDC	±2.0 A	87
UM7413V3S	18-36 VDC (24VDC)	3.3 VDC	15.0 A	90
UM7415V0S		5 VDC	12.0 A	91
UM74112VS		12 VDC	5.0 A	91
UM74115VS		15 VDC	4.0 A	92
UM74112VD		±12 VDC	±2.5 A	89
UM74115VD		±15 VDC	±2.0 A	88
UM7423V3S	36-75 VDC (48VDC)	3.3 VDC	15.0 A	89
UM7425V0S		5 VDC	12.0 A	91
UM74212VS		12 VDC	5.0 A	92
UM74215VS		15 VDC	4.0 A	92
UM74212VD		±12 VDC	±2.5 A	89
UM74215VD		±15 VDC	±2.0 A	89

Pin Connections

PIN	Single	Dual	PIN	Single	Dual
1	On / Off Control		5	+Sense	COM
2	-Input	-Input	6	+ Output	COM
3	+ Input	+ Input	7	-Output	-Output
4	-Sense	+Output	8		Trim

UM7400W SERIES



40 - 50 Watt DC - DC Converter

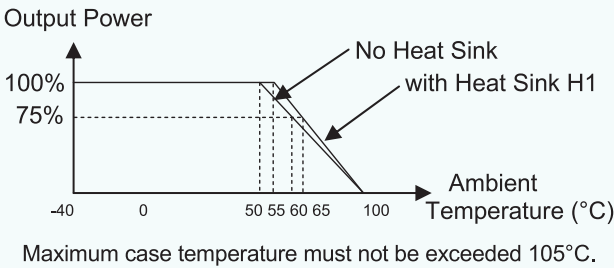
- ▶ Synchronous Rectifier Topology
- ▶ Remote On / Off Control
- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ Efficiency up to 90%
- ▶ Standard 2" x2" Package
- ▶ Enclosure type
- ▶ Over Temperature Protection



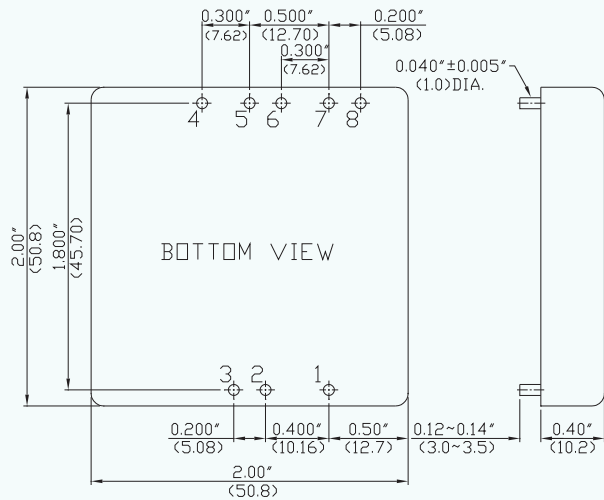
Specifications

Voltage Accuracy	±1% max.
Line Regulation	±0.5% max.
Load Regulation	±0.5% max.
Ripple & Noise	3.3 - 5V 100 mV P-P max. 12 - 15V 150 mV P-P max.
Isolation Voltage	
a) UM741XXX-series	1500 VDC
b) UM742XXX-series	1500 VDC
c) UM743XXX-series	2250 VDC
Operating Temperature	-40°C to + 100°C (With Derating)

Derating Curve



Dimensions



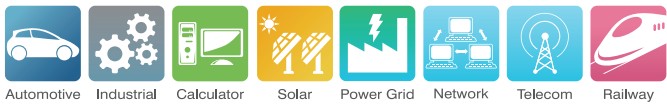
Models

Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)	Safety
UM7413V3WS	9-36 VDC (24VDC)	3.3 VDC	10.0 A	86	Pending
UM7415V0WS		5 VDC	8.0 A	88	Pending
UM74112VWS		12 VDC	3.35 A	88	Pending
UM74115VWS		15 VDC	2.65 A	88	Pending
UM74112VWD		±12 VDC	±1.65 A	88	Pending
UM74115VWD		±15 VDC	±1.35 A	88	Pending
UM7423V3WS	18-75 VDC (48VDC)	3.3 VDC	10.0 A	86	UL, CUL
UM7425V0WS		5 VDC	8.0 A	89	Pending
UM74212VWS		12 VDC	3.35 A	90	Pending
UM74215VWS		15 VDC	2.65 A	90	Pending
UM74212VWD		±12 VDC	±1.65 A	88	Pending
UM74215VWD		±15 VDC	±1.35 A	88	Pending
UM7433V3WS	43-160 VDC (110VDC)	3.3 VDC	10.0 A	86	Pending
UM7435V0WS		5 VDC	8.0 A	87	Pending
UM74312VWS		12 VDC	3.35 A	88	Pending
UM74315VWS		15 VDC	2.65 A	88	Pending
UM74312VWD		±12 VDC	±1.65 A	88	Pending
UM74315VWD		±15 VDC	±1.35 A	88	Pending

Pin Connections

PIN	Single	Dual	PIN	Single	Dual
1	On / Off Control		5	+Sense	COM
2	-Input	-Input	6	+ Output	COM
3	+ Input	+ Input	7	-Output	-Output
4	-Sense	+Output	8		Trim

UM8000W SERIES

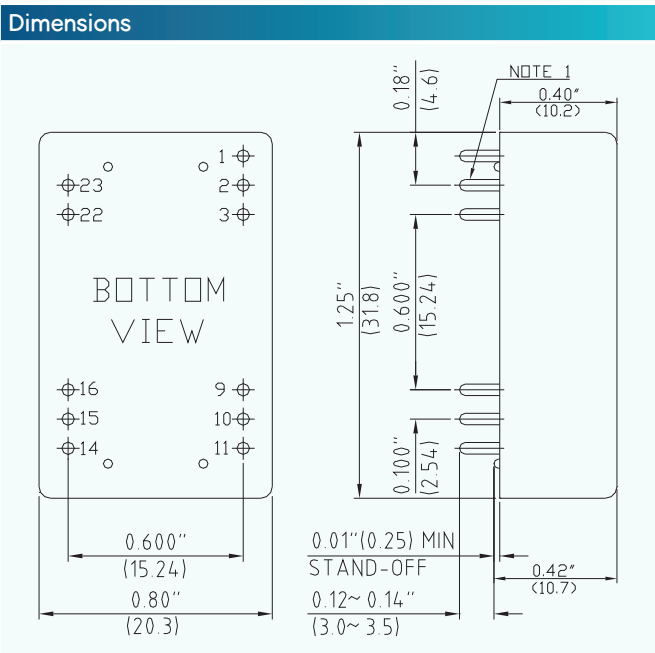
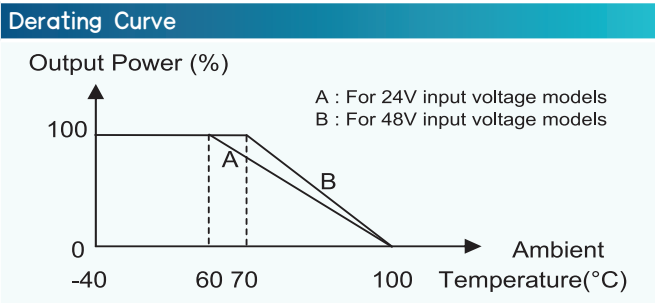


12 Watt DC - DC Converter

- ▶ 4:1 Ultra Wide Input Voltage Range
- ▶ 25 Watts/Cubic Inch
- ▶ Standard 1.25"x0.8" Package
- ▶ Enclosure type
- ▶ High Efficiency up to 89%
- ▶ Short Circuit protection
- ▶ Synchronous Rectifier Topology
- ▶ Remote On/Off Control
- ▶ Five-Sided Shield Metal Case with Insulated Base
- ▶ RoHS Compliant
- ▶ Safety Approvals Pending
- ▶ 2:1 Input Voltage Range products are available as well
(Please contact us for data sheet)



Specifications	
Voltage Accuracy	±1.2% max.
Line Regulation	±0.2% max.
Load Regulation	±1% max.
Ripple & Noise	85 mV P-P max.
Isolation Voltage	1500 VDC
Operating Temperature	-40°C to + 100°C (With Derating)



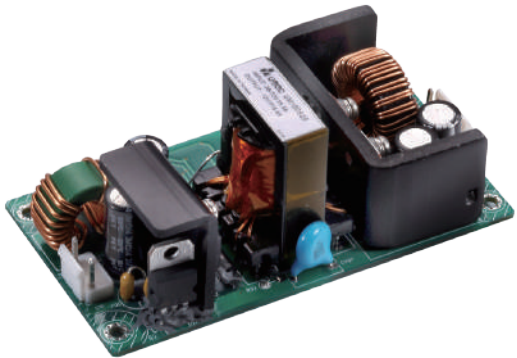
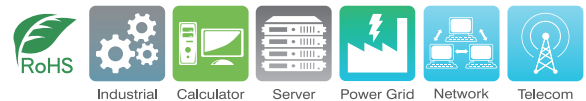
Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UM8013V3WS	9-36 VDC (24VDC)	3.3 VDC	3640 mA	87%
UM8015V0WS		5 VDC	2400 mA	89%
UM80112VWS		12 VDC	1000 mA	89%
UM80115VWS		15 VDC	800 mA	89%
UM80112VWD		±12 VDC	±500 mA	86%
UM80115VWD		±15 VDC	±400 mA	86%
UM8023V3WS	18-75 VDC (48VDC)	3.3 VDC	3640 mA	86%
UM8025V0WS		5 VDC	2400 mA	88%
UM80212VWS		12 VDC	1000 mA	88%
UM80215VWS		15 VDC	800 mA	88%
UM80212VWD		±12 VDC	±500 mA	86%
UM80215VWD		±15 VDC	±400 mA	86%

Pin Connections					
PIN	Single	Dual	PIN	Single	Dual
1	On / Off Control		14	+Output	+Output
2	-Input	-Input	15	NP*	NP*
3	-Input	-Input	16	-Output	COM
9	NP*	COM	22	+Input	+Input
10	NP*	NP*	23	+Input	+Input
11	NC*	-Output			

UMTY SERIES

30 - 100W DC - DC Converter

- ▶ 2:1 Ultra Wide Input Voltage Range
- ▶ Remote On/Off Control
- ▶ Efficiency up to 94%
- ▶ Over-Temperature and Short Circuit Protection
- ▶ Isolated Output
- ▶ Input Reverse Voltage Protection
- ▶ Open Frame
- ▶ Over Current and Over Voltage Protection
- ▶ Safety Approval Pending

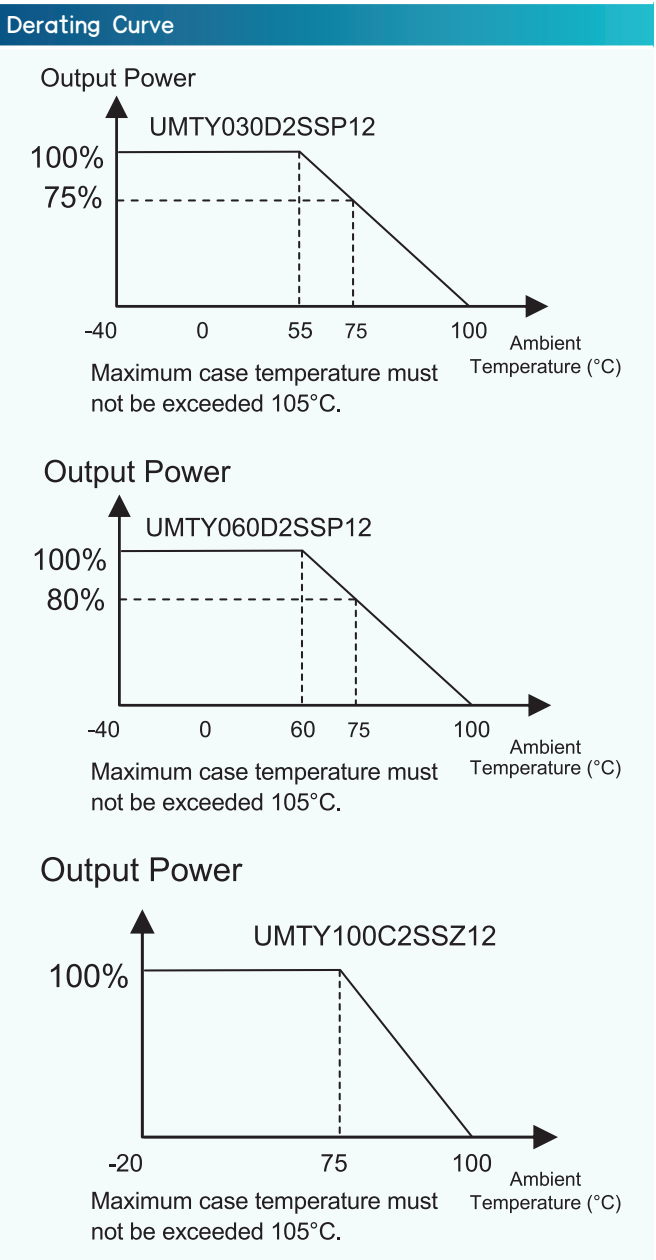


Specifications		
Voltage Accuracy	±1 % max. (30W, 60W)	
	±2 % max. (100W)	
Line Regulation	±0.5% max. (30W, 60W)	
	±1% max. (100W)	
Load Regulation	±0.5% max. (30W, 60W)	
	±3% max. (100W)	
Ripple & Noise	150 mV P-P max. (30W, 60W)	
	120 mV P-P max. (100W)	
Isolation Voltage	30W	1500VDC
	60W	1600VDC
	100W	2250VDC
Operating Temperature		None Derating : -40°C to + 65°C With Derating : to +100°C

Models				
Model Number	Input Range	Output Voltage (V.DC)	Output Current (A max.)	Eff. (%)
UMTY030D2SSP12	36 - 75 VDC (48V)	12 VDC	2.5 A	91%
UMTY060D2SSP12		12 VDC	5 A	94%
UMTY100C2SSZ12		12 VDC	8.4 A	93%

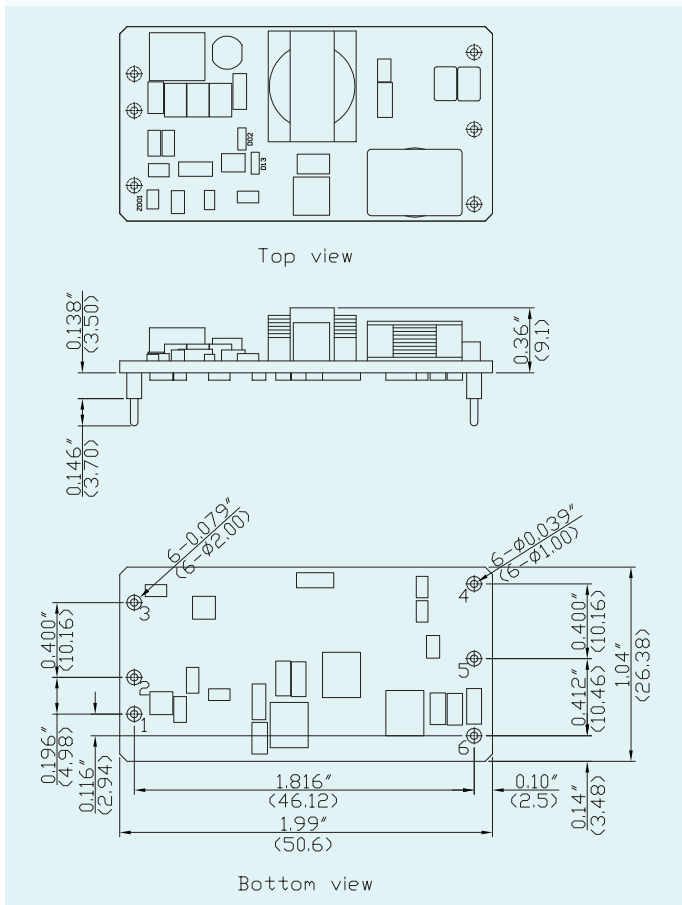
Pin Connections For UMTY030 & 060			
PIN	Function	PIN	Function
1	+Vin	4	Trim
2	-Vin	5	-Vout
3	On/Off Control	6	+Vout

Pin Connections For UMTY100C2SZ12			
CN1: DC Input		CN2: DC Output	
Pin	Function	Pin	Function
1	-V Input	1,2	+V Output
2	NC	3,4	-V Output
3	+V Input		

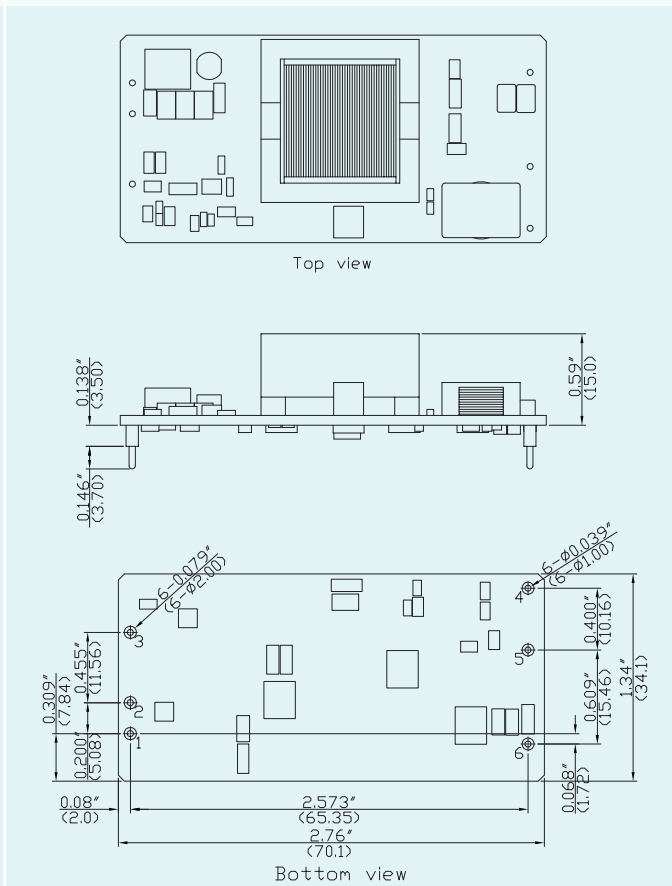


Dimensions

UMTY030D2SSP12



UMTY060D2SSP12



Dimensions

UMTY100C2SSZ12

