

APU15 series

15W Interchangeable Wall Mount Type
Extreme Temp. Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- Interchangeable Plug
- Optional Output Connector (See page appendix)
- Single Output
- Class II
- Operating temperature -40~70°C
- Energy Star 2.0, Efficiency level V
- 3 year warranty



PRELIMINARY

Electrical Characteristics:

Vin	Safety Approvals		100~240VAC
	Input Voltage Range		90~264VAC
fin	Input Frequency		47~63Hz
Po	Output Power Range		See rating chart
Vo	Output Voltage Range		See rating chart
Io	Output Current Range		See rating chart
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC	0.4A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.4A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	40~45A
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	80~90A
Eff	Efficiency	Io=Full Load, Vin=230VAC	74.7~85%
REG-i	Line Regulation	Io=Full Load	0.5~1%
REG-o	Load Regulation	Vin=230VAC	3~5%
OVP	Over Voltage Protection		Nil
OCP	Over Current Protection		Nil. But, Output protected to short circuit conditions
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	Hold-Up Time	Io=Full Load, Vin=110VAC	6mS (min.)
Ts	Start Up Time	Io=Full Load, Vin=100VAC	2S (max.)
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	1% (max.)
Ilk	Leakage Current	Vin=240VAC/60Hz	0.25mA (max.)
TC	Temperature Coefficient	All output	±0.04%/°C
Pno	No-Load Power Consumption	No load, Vin=230VAC	See rating chart
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242VDC (min.)

Application:

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-top Box
- AV Equipment

Safety Approvals:



UL/c-UL(UL 60950-1:2nd Edition)
TUV/GS(EN 60950-1:2nd Edition)

Environmental

To	Operating Temperature	See derating curve
Ts	Storage Temperature	-40~85°C
Ho	Operating Humidity	0~95%
Hr	Storage Humidity	0~95%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	0.1M Hrs (min.)
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C	



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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
APU15-102	5 ~ 5.99 VDC	2.40 ~ 2.00 A	5%	12W	0.3W
APU15-103	6.5 ~ 8 VDC	1.85 ~ 1.50 A	5%	12W	0.3W
APU15-104	8 ~ 11 VDC	1.68 ~ 1.22 A	5%	13.5W	0.3W
APU15-105	11 ~ 13 VDC	1.36 ~ 1.15 A	5%	15W	0.3W
APU15-106	13 ~ 16 VDC	1.15 ~ 0.94 A	5%	15W	0.3W
APU15-107	16 ~ 21 VDC	0.94 ~ 0.72 A	3%	15W	0.3W
APU15-108	21 ~ 27 VDC	0.72 ~ 0.55 A	5%	15W	0.3W
APU15-109	27 ~ 33 VDC	0.55 ~ 0.45 A	3%	15W	0.3W
APU15-110	33 ~ 40 VDC	0.45 ~ 0.37 A	3%	15W </td <td>0.3W</td>	0.3W
APU15-111	40 ~ 48 VDC	0.37 ~ 0.32 A	3%	15W	0.3W

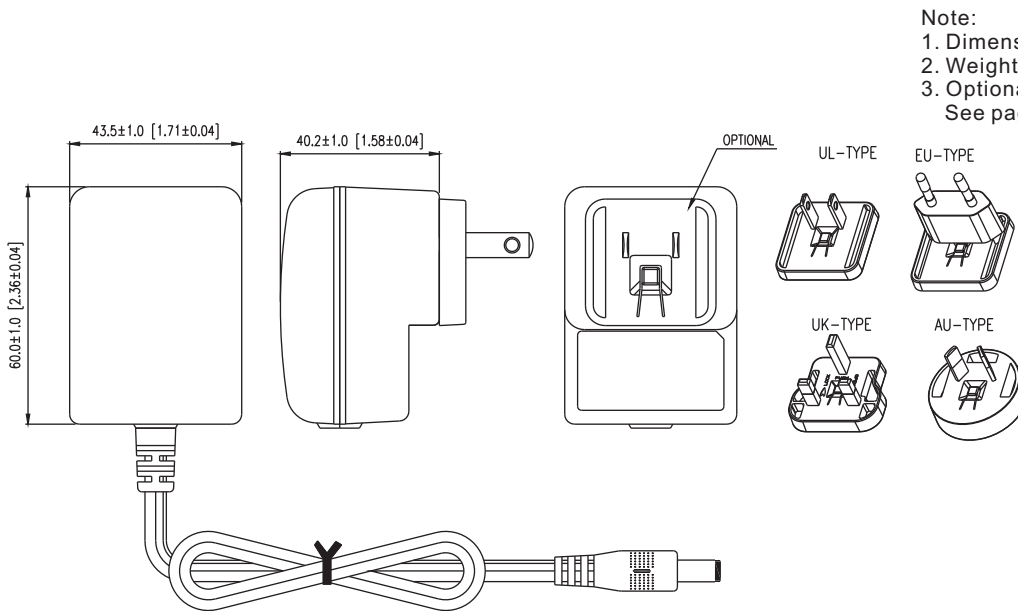
APU15-102~104 are required to use AWG#18/4FT output cable.

APU15-105~109 are required to use AWG#20/4FT output cable.

APU15-110~111 are required to use AWG#22/4FT output cable.

The electrical characteristics will be changed by modified output cable.

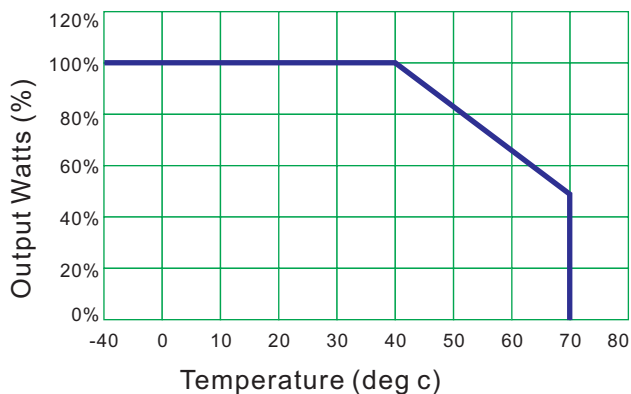
Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 165gs approx.
3. Optional output connector:
See page Appendix.

Derating Curve :



1. Operating Temperature: -40 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C