

HPU12C series

12W Wall mount Type
Medical Power Supplies For Health Care Applications

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- 2 Prong Plug-In Mains Connector
- Optional Output Connector (See page appendix)
- Single Output
- Class II
- Energy Star 2.0, Efficiency level V
- 2 year warranty



Electrical Characteristics:

Vin	Safety Approvals Input Voltage Range		100~240VAC
	Operate 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	0.3A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.16A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	16A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	32A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	73.3~85%
REG-i	Line Regulation	Io=Full Load	1% (max.)
REG-o	Load Regulation	Vin=230VAC	5% (max.)
OCP	Over Current Protection		110~150%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	Hold-Up Time	Io=Full Load, Vin=110VAC	10mS (min.)
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3~2S
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC	1% (max.)
TC	Temperature Coefficient	All output	±0.04%/°C
OA	Operating Altitude		Up to 3000m
Pno	No-Load Power Consumption	No load, Vin=230VAC	See rating chart
Vps	Dielectric Withstanding Voltage	Primary to secondary	4248VDC (min.)

Note: The specifics for testing the energy efficiency of HPU12 Series are outlined in a separate document titled "Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004)," which is available on the ENERGY STAR Website.

Environmental

To	Operating Temperature	See derating crve
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	

Application:

- Blood Pressure system
- Portable medical devices
- ECG machine

Safety Approvals:



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Output Voltage And Current Rating Chart (Single Output) :

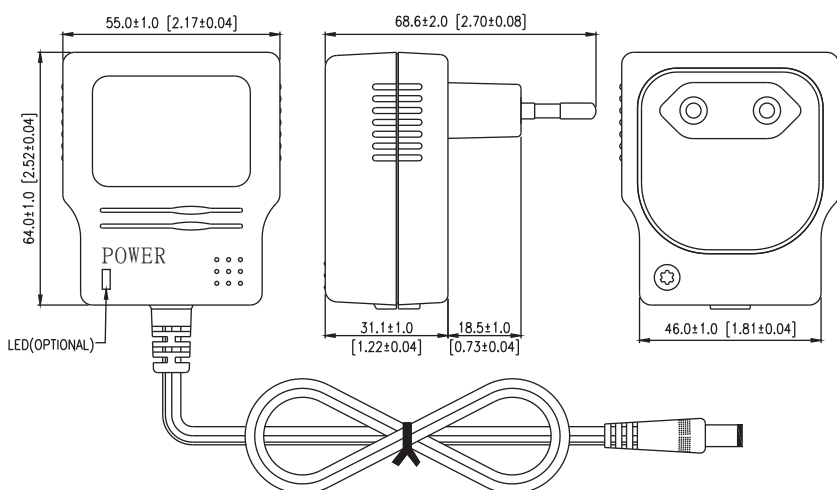
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
HPU12C-102	5 ~ 6 VDC	2.00 ~ 1.66 A	5%	10W	0.3W
HPU12C-103	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W	0.3W
HPU12C-104	8 ~ 11 VDC	1.50 ~ 1.09 A	5%	12W	0.3W
HPU12C-105	11 ~ 13 VDC	1.09 ~ 0.92 A	5%	12W	0.3W
HPU12C-106	13 ~ 16 VDC	0.92 ~ 0.75 A	5%	12W	0.3W
HPU12C-107	16 ~ 21 VDC	0.75 ~ 0.57 A	3%	12W	0.3W
HPU12C-108	21 ~ 27 VDC	0.57 ~ 0.45 A	3%	12W	0.3W

HPU12C-102~104 are required to use AWG#18/6FT output cable.

HPU12C-105~108 are required to use AWG#20/6FT output cable.

The regulation and efficiency will be changed by modified output cable.

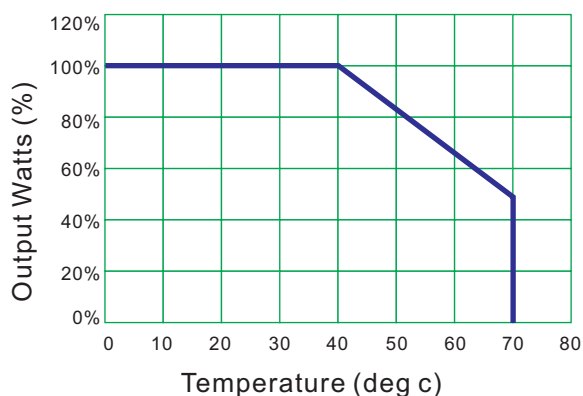
Mechanical Specifications: (European Type)



Note:

1. Dimensions are shown in mm.
2. Weight: 140gs approx.
3. Optional output connector:
See page Appendix.

Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C