

HPU63A SERIES

63W Desk Top Switching Power Supplies For Health Care Applications.

Description:

The HPU63A series of AC/DC switching mode power supplies provide 63 Watts of continuous output power. All supplies are UL94V-1 min compliant. They are suited for use in Health care applications. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission Limits and are designed to comply with UL/c-UL (UL 60601-1:2nd Edition), TUV/T-mark (EN 60601-1:2nd Edition), and new CE requirements. All units are 100% burned in and tested.

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Optional Output Connector (See appendix)
- Input Surge Current, Over Voltage And Over Load protection
- Output Voltage Protection (Crowbar Desing)
- Energy Star 2.0, Efficiency level V
- Class I
- 2 year warranty



Safety Approvals :



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		240	VAC
	Operate Voltage Range		90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC	0		63	W
Vo	Output Voltage Range		See rating chart			V
Io	Output Current Range		See rating chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.62	A
Iih	Input Current (High Line)	Io=Full load, Vin=230 VAC			0.72	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		26	30	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		43	47	A
* Eff	Efficiency	Io=Full Load, Vin=230VAC	87		92	%
REG-i	Line Regulation	Io=Full Load			1	%
REG-o	Load Regulation	Vin=230VAC			5	%
OVP	Over Voltage Protection		112		132	%
OCF	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	12			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Vp-p	Ripple & Noise (Peak to Peak)	Full Load, Vin=100VAC			1	%
Ilk	Safety Ground Leakage Current	Io= Full Load, Vin=240VAC			0.1	mA
Pno	No-Load Power Consumption	No load, Vin=240VAC	0.3	0.4	0.5	W
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

* **Note:** The specifics for testing the energy efficiency of HPU63 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 :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0	40	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		75	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C					

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Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	5656			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2828			VDC
Ris	Isolation Resistance	Test Voltage = 500VDC	50			MΩ
CISPR	EMI requirements for CISPR-11	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-18	Vin=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation ①	Maximum Output Power
HPU63A-105	12 VDC	5.25 A	5%	63W
HPU63A-106	15 VDC	4.20 A	5%	63W
HPU63A-107	18 VDC	3.50 A	5%	63W
HPU63A-108	24 VDC	2.62 A	3%	63W
HPU63A-109	30 VDC	2.10 A	3%	63W
HPU63A-110	36 VDC	1.75 A	3%	63W
HPU63A-111	48 VDC	1.31 A	3%	63W

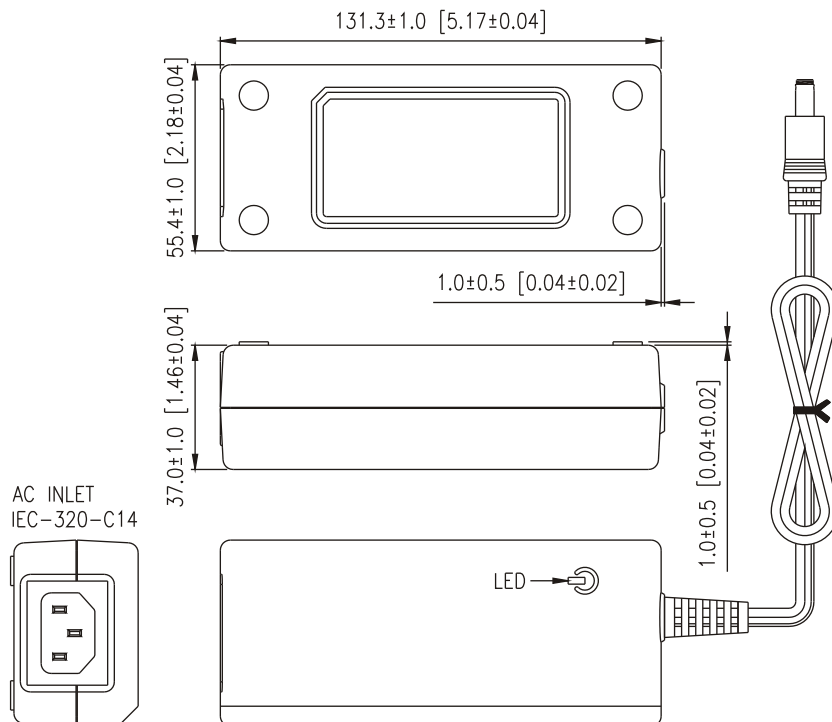
HPU63A-105~109 had been approved by PSE.

① HPU63A-105~107 are required to use AWG#16/2C/4FT output cable.

HPU63A-108~110 are required to use AWG#18/2C/6FT output cable.

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

Mechanical Specifications:



Note:

1. Dimensions are shown in inches or mm.
2. Weight: 330-380gs approx.
3. Optional output connector:
See page Appendix.