

EPU60A SERIES

60W Desk Top Switching Power Supplies.

Description:

The EPU60A series of AC/DC switching mode power supplies provide 60 Watts of continuous output power. All supplies are UL 94V-1 min compliant, include IEC-320-C14 input for worldwide applications. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1), Intertek/GS(EN 60950-1) and new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available From 12~48VDC
- Single output
- Optional Output Connector (See appendix)
- Class I
- 1 year warranty

Safety Approvals :



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Universal Input Voltage	100		240	VAC
		Operating Voltage	90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC	0		60	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=115VAC			1.6	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.7	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC			105	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	87			%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OCP	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	10			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC		2	3	S
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C
Pno	No-Load Power Consumption	No load, Vin=240VAC		0.4	0.5	W

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Tope	Operating Temperature		0		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
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:

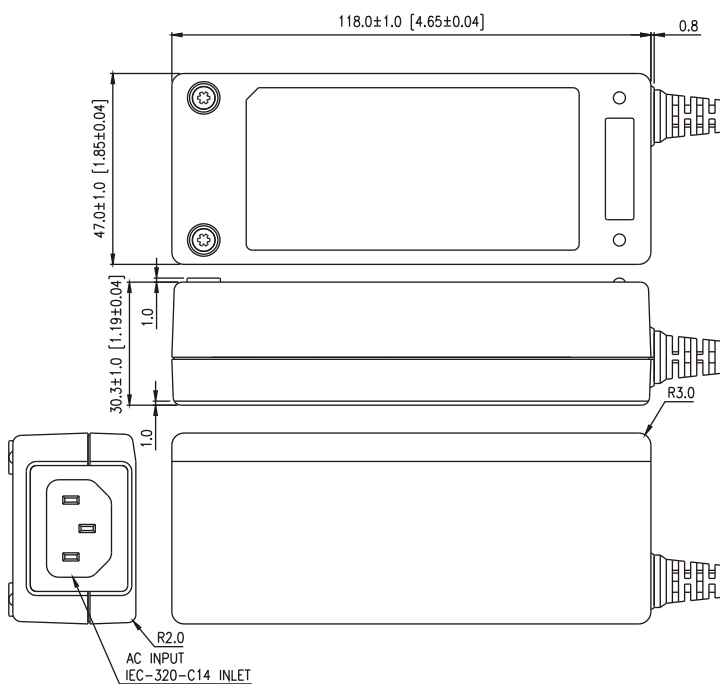
Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _{ps}	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
V _{pg}	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
R _{is}	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Max. Output Current	Total Regulation ①	Max. Output Watts
EPU60A-105	12~13 VDC	5.00~4.61 A	5%	60W
EPU60A-106	13~16 VDC	4.61~3.75 A	5%	60W
EPU60A-107	16~21 VDC	3.75~2.85 A	5%	60W
EPU60A-108	21~27 VDC	2.85~2.22 A	3%	60W
EPU60A-109	27~33 VDC	2.22~1.81 A	3%	60W
EPU60A-110	33~40 VDC	1.81~1.50 A	3%	60W
EPU60A-111	40~48 VDC	1.50~1.25 A	3%	60W

- ① The total regulation on model 105~107 is required to use AWG#16 / 4FT output cable.
 The total regulation on model 108~109 is required to use AWG#18 / 4FT output cable.
 The total regulation on model 110~111 is required to use AWG#20 / 4FT output cable
 The regulation will be changed by modified output cable

Mechanical Specifications :



- Note:
 1. Dimensions are shown in mm.
 2. Weight: 340gs approx.
 3. Optional output connector:
 See page Appendix.