SMDA60B SERIES

63W Desktop Power Supply for Medical Equipment



- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C8 input inlet
- Output Voltage Available From 12VDC Thru 48VDC
- Single Output
- Class II Insulation
- Input Surge Current, Over Voltage, Over Load and Output Voltage protection.
- Energy Star 2.0, CEC V, Efficiency Level V, and RoHS Compliance

3 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SMDA60B-S05	12 VDC	5.25 A	5%	63W
SMDA60B-S06	15 VDC	4.20 A	5%	63W
SMDA60B-S07*	18 VDC	3.50 A	5%	63W
SMDA60B-S08*	24 VDC	2.62 A	3%	63W
SMDA60B-S09*	30 VDC	2.10 A	3%	63W
SMDA60B-S10	36 VDC	1.75 A	3%	63W
SMDA60B-S11	48 VDC	1.31 A	3%	63W

Mark "*" means approved by PSE.

Total Regulation is conditioned by below configuration

(S05~S07: AWG16/2C/4FT output cable)

(S08~S11: AWG18/2C/6FT output cable)

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin= 90 to 264 VAC	0		63	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.62	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			0.72	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		26	30	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230 VAC		43	47	A
Efficiency *	Io=Full Load, Vin=230VAC	87		92	%
Line Regulation	Io=Full Load			1	%
Load Regulation	Vin=230VAC			5	%
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full Load, Vin=110VAC	16			mS
Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC			1	%
Safety Ground Leakage Current	Io= Full Load, Vin=240VAC			0.1	mA
No-Load Power Consumption	No load, Vin=240VAC	0.3	0.4	0.5	W
Temperature Coefficient	All output	-0.04		0.04	%/°C

*The specifics for testing the energy efficiency of SMDA60 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.

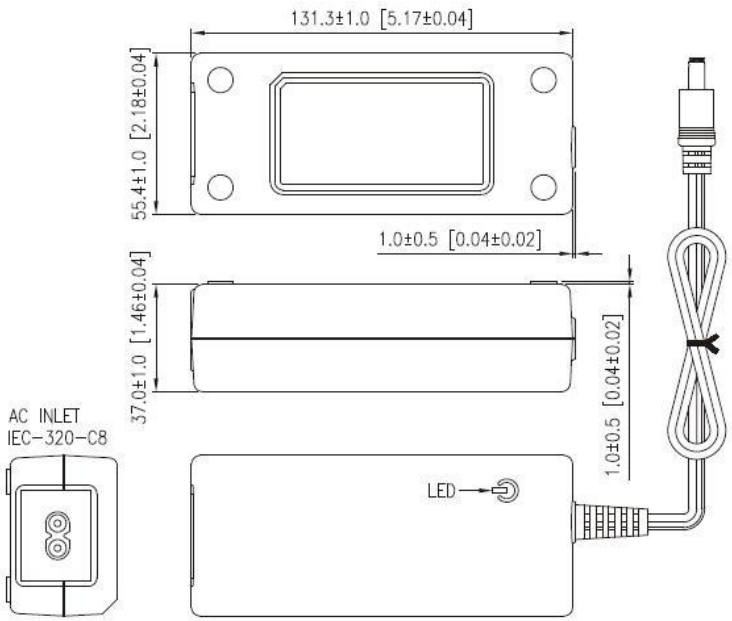
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.1M			Hrs
Derate linearly from 100% load at 50°C to 50% load at 70°C					

Approvals and Compliances

Parameter	Test Conditions	Min.	Unit
Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	5656	VDC
Isolation Resistance	Test Voltage = 500VDC	50	MΩ
EMI requirements for CISPR-11	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-18	Vin=110VAC	B	CLASS

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 330-380g (Exclude the input cord)
3. Optional output connector.