SMDA60A SERIES

63W Desktop Power Supply for Medical Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Output Voltage Available From 12VDC Thru 48VDC
- Single Output
- Class I 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
SMDA60A-S05	12 VDC	5.25 A	5%	63W
SMDA60A-S06	15 VDC	4.20 A	5%	63W
SMDA60A-S07	18 VDC	3.50 A	5%	63W
SMDA60A-S08	24 VDC	2.62 A	3%	63W
SMDA60A-S09	30 VDC	2.10 A	3%	63W
SMDA60A-S10	36 VDC	1.75 A	3%	63W
SMDA60A-S11	48 VDC	1.31 A	3%	63W

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℃, Cool start, Vin=115VAC		26	30	A
High Line Inrush Current	Io=Full load, 25℃, 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.

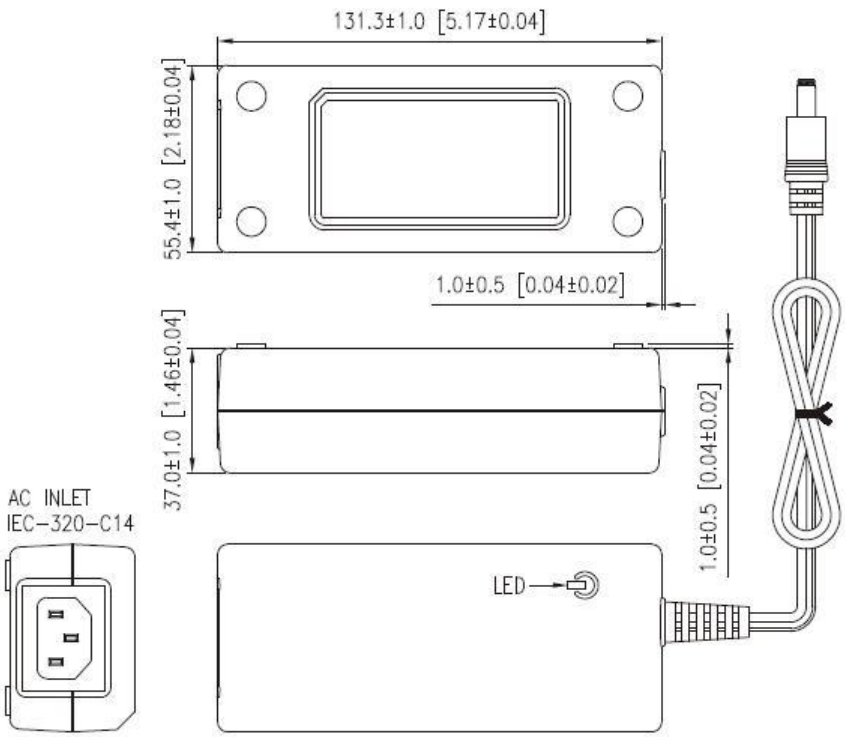
Conditions

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
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2828	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.