

**SMDA60A SERIES**



**5 Year Warranty**

**63W Desktop Power Supply for Medical Equipment**

- Wide Operating Voltage 80 to 275 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Single Output
- Crowbar Mode Over Voltage Protection
- Input to Output : 2MOPP
- High ESD immunity
- Suitable professional healthcare facility
- Class I system

Approvals: **UL<sup>®</sup> US CBC EFC**

**Single Output**

Model 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  
 SMDA60A-S05~S07 are required to use AWG16/4FT output cable.  
 SMDA60A-S08~S11 are required to use AWG18/6FT output cable.

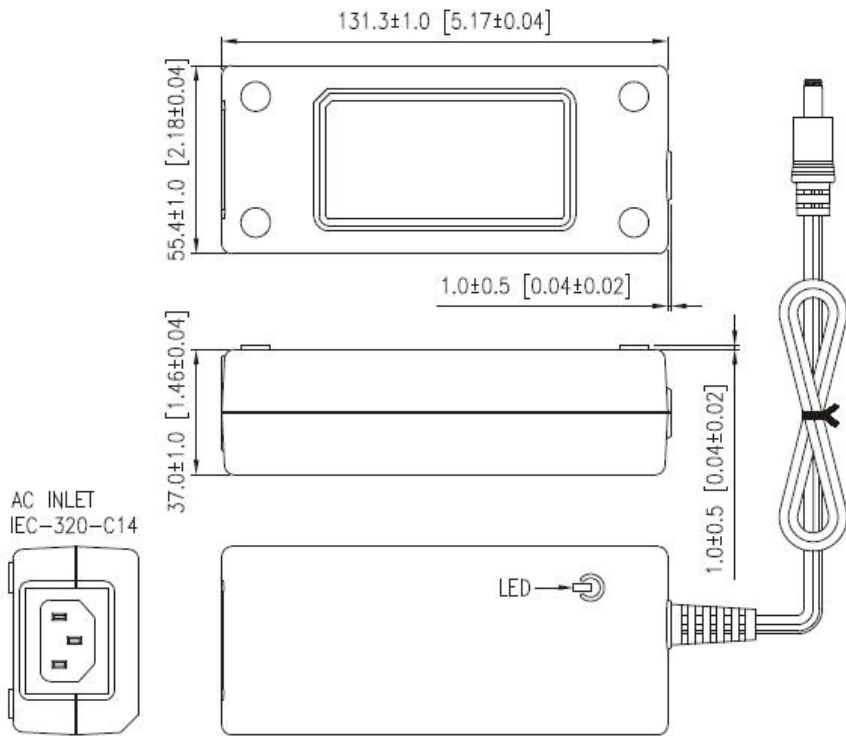
**Electrical Characteristics**

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range	Derate linearly from 100% load at 90VAC to 80% load at 80VAC	80		275	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			63	W
Low Line Input Current	Full load, Vin=100VAC			1.62	A
High Line Input Current	Full load, Vin=240VAC			0.72	A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			37	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			74	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.1	mA
Efficiency	Full Load, Vin=230VAC			87	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
Over Voltage Protection		112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			16	ms
Start Up Time	Full Load, Vin=100~240VAC	0.3		2	s
Insulation Resistance		50			MΩ
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	All output			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary, limit current<10mA			4000	VAC
Dielectric Withstanding Voltage(P-G)	Primary to PE, limit current<10mA			1500	VAC
EMC Emission	Compliance to EN55011(CISPR11), EN60601-1-2	B			Class

### Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 50 to 50% load at 70	-10		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	KV
Mean Time Between Failure	Operation Temperature at 25 J, Calculated per MIL-HDBK-217F	200K			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

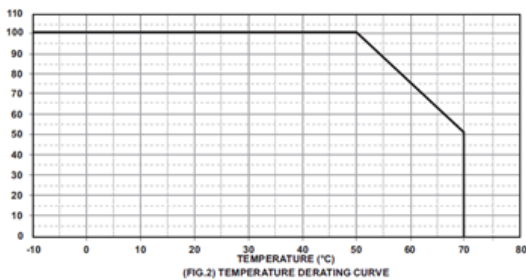
### Mechanical Diagram



**Note:**

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

### Derating Chart



1. Operating Temperature: -10 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C