

SHDA101 SERIES

100W Desktop Power Supply for Medical Equipment

- Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Crowbar Mode Over Voltage Protection
- Input to Output : 2MOPP
- High ESD immunity
- Suitable professional healthcare facility
- Low earth leakage current < 0.25mA

3 Year Warranty
Approvals:
Single Output

Part Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Pno (max.)
SHDA101-S05	12 ~ 13 VDC	8.33 ~ 7.70 A	5%	100W	0.5W
SHDA101-S06	13 ~ 16 VDC	7.70 ~ 6.30 A	4%	100W	0.5W
SHDA101-S07	16 ~ 21 VDC	6.30 ~ 4.80 A	4%	100W	0.5W
SHDA101-S08	21 ~ 27 VDC	4.80 ~ 3.70 A	4%	100W	0.5W
SHDA101-S09	27 ~ 33 VDC	3.70 ~ 3.00 A	3%	100W	0.5W
SHDA101-S10	33 ~ 40 VDC	3.00 ~ 2.50 A	3%	100W	0.5W
SHDA101-S11	40 ~ 48 VDC	2.50 ~ 2.08 A	3%	100W	0.5W

The total regulation each model is required to use AWG#18/3C+AWG16/3C/4FT output cable
 The regulation will be changed by modified output cable.

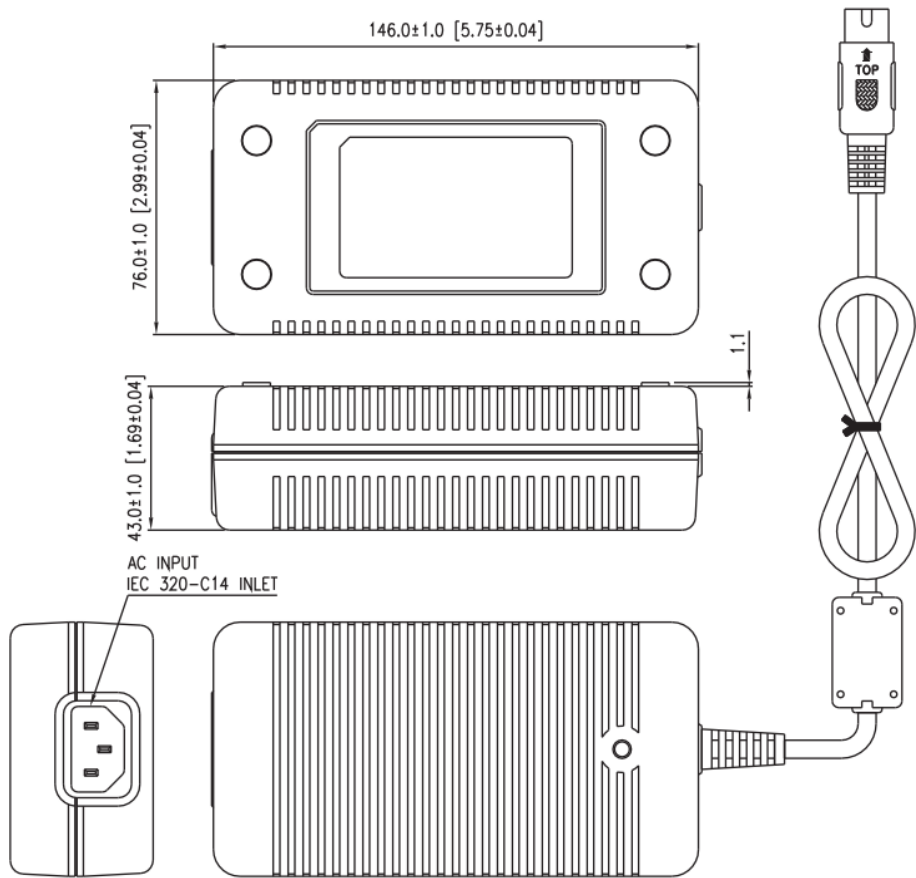
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction		0.95		1	
Output Power Range	See Rating Chart			100	W
Low Line Input Current	Full load, Vin=100VAC			1.2	A
High Line Input Current	Full load, Vin=240VAC			0.5	A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			50	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			120	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC	81		87	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC	0.5		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 40 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

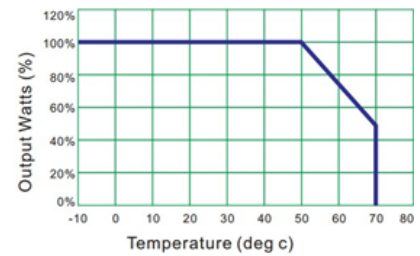
Mechanical Diagram and Derating Chart



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 490-670gs (Exclude the input cord)
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