

SMDA101 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 to Triple Output
- Input to Output : 2MOPP
- High ESD immunity
- Suitable professional healthcare facility
- Class I system

5 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
SMDA101-S02	5 ~ 6 VDC	14.00 ~ 11.66 A	±5%	70W
SMDA101-S03	6 ~ 8 VDC	13.33 ~ 10.00 A	±5%	80W
SMDA101-S04	8 ~ 11 VDC	11.25 ~ 8.20 A	±4%	90W
SMDA101-S05	12 ~ 13 VDC	8.33 ~ 7.70 A	±3%	100W
SMDA101-S06	13 ~ 16 VDC	7.70 ~ 6.30 A	±3%	100W
SMDA101-S07	16 ~ 21 VDC	6.30 ~ 4.80 A	±3%	100W
SMDA101-S08	21 ~ 27 VDC	4.80 ~ 3.70 A	±2%	100W
SMDA101-S09	27 ~ 33 VDC	3.70 ~ 3.00 A	±2%	100W
SMDA101-S10	33 ~ 40 VDC	3.00 ~ 2.50 A	±2%	100W

Multi Output

Part Number	Output 1				Output 2				Output 3				Max. Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
SMDA101-D00	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%					69W
SMDA101-D01	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%					80W
SMDA101-D02	+5V	1.0A	10A	5%	+15V	0.3A	3A	5%					80W
SMDA101-D03	+5V	1.0A	10A	5%	+24V	0.2A	2A	5%					80W
SMDA101-D04	+3.3V	1.0A	10A	7%	+5V	0.5A	5A	5%					55W
SMDA101-D09	+12V	0.7A	7A	5%					-12V	0A	1A	5%	80W
SMDA101-D10	+15V	0.6A	6A	5%					-15V	0A	1A	5%	80W
SMDA101-D12	+24V	0.3A	3A	5%					-24V	0A	1A	5%	80W
SMDA101-D15	+5V	1.0A	10A	5%					-24V	0A	1A	5%	74W
SMDA101-T00	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	-12V	0A	1A	5%	74W
SMDA101-T00-1	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	+12V	0A	1A	5%	74W
SMDA101-T01	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	-5V	0A	1A	5%	80W
SMDA101-T01-1	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	+5V	0A	1A	5%	80W
SMDA101-T02	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	-12V	0A	1A	5%	80W
SMDA101-T02-1	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	+12V	0A	1A	5%	80W
SMDA101-T03	+5V	1.0A	10A	5%	+15V	0.3A	3A	6%	-15V	0A	1A	5%	80W
SMDA101-T03-1	+5V	1.0A	10A	5%	+15V	0.3A	3A	6%	+15V	0A	1A	5%	80W
SMDA101-T04	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	-24V	0A	1A	5%	80W
SMDA101-T04-1	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	+24V	0A	1A	5%	80W
SMDA101-T05	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	-12V	0A	1A	5%	80W
SMDA101-T05-1	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	+12V	0A	1A	5%	80W
SMDA101-T06	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	-5V	0A	1A	5%	74W
SMDA101-T06-1	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	+5V	0A	1A	5%	74W
SMDA101-T08	+3.3V	1.0A	10A	7%	+5V	0.3A	3A	5%	-12V	0A	1A	5%	60W
SMDA101-T08-1	+3.3V	1.0A	10A	7%	+5V	0.3A	3A	5%	+12V	0A	1A	5%	60W

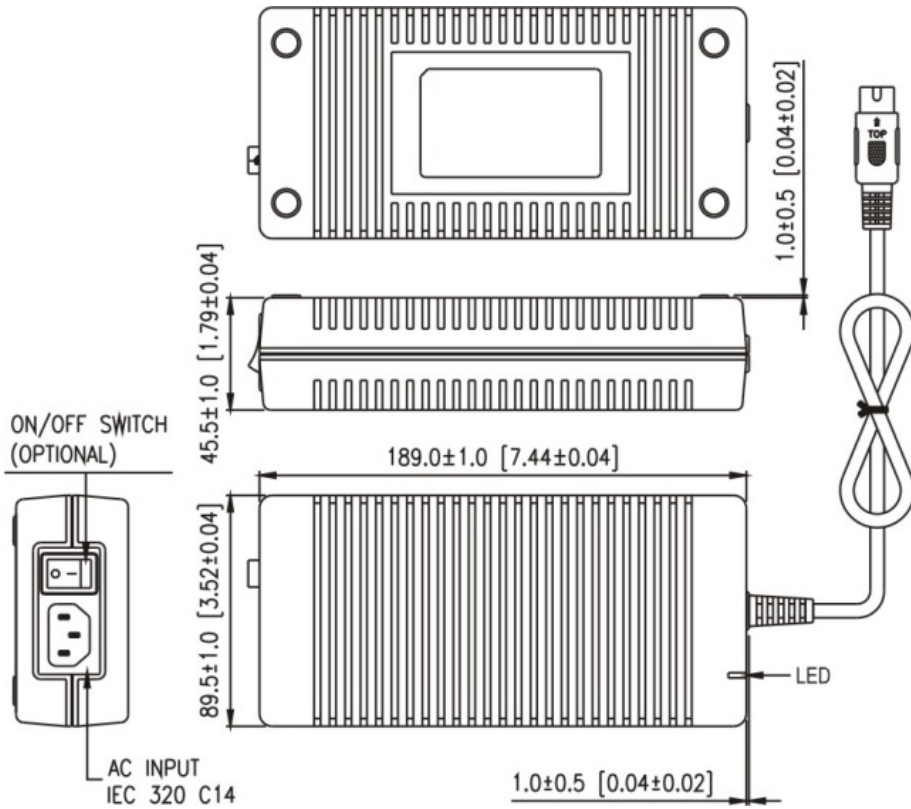
Electrical Characteristics

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			1.25	A
High Line Input Current	Full load, Vin=240VAC			0.50	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=264VAC, Fi=63Hz		0.1	0.175	mA
Efficiency	Full Load, Vin=230VAC	76		86	%
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 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 °C, 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

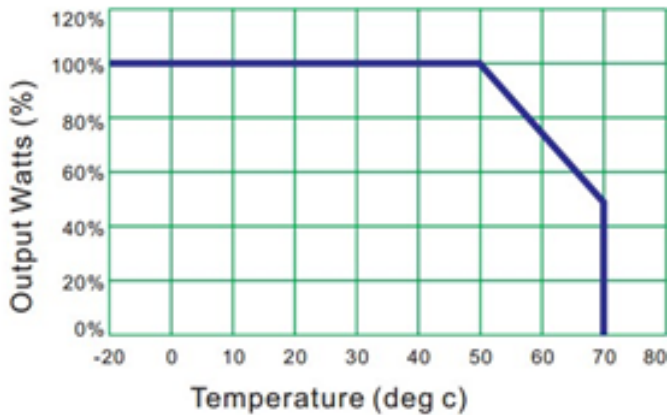
Mechanical Diagram



Note:

1. Dimensions are shown in inches and mm.
2. Weight: 778-800g approx. (Exclude the input cord)
3. Optional output connector.

Derating Curve



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