

SMDA50 SERIES



50W 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 2VDC Thru 50VDC
- Single to Triple Output
- Input Surge Current, Over Voltage, Output Voltage, and Over Load Protection.
- Splash Proof
- Class I Insulation

3 Year Warranty

Approvals:     

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
SMDA50-S00	2 ~ 3 VDC	12.0 ~ 10.0 A	7%	30W
SMDA50-S01	3 ~ 5 VDC	10.0 ~ 8.00 A	5%	40W
SMDA50-S02	5 ~ 6 VDC	8.00 ~ 6.66 A	5%	40W
SMDA50-S03	6 ~ 8 VDC	7.00 ~ 5.25 A	5%	42W
SMDA50-S04	8 ~ 11 VDC	5.63 ~ 4.00 A	4%	45W
SMDA50-S05	11 ~ 13 VDC	4.00 ~ 3.46 A	3%	45W
SMDA50-S06	13 ~ 16 VDC	3.46 ~ 2.81 A	3%	45W
SMDA50-S07	16 ~ 21 VDC	3.12 ~ 2.38 A	3%	50W
SMDA50-S08	21 ~ 27 VDC	2.30 ~ 1.85 A	2%	50W
SMDA50-S09	27 ~ 33 VDC	1.85 ~ 1.51 A	2%	50W
SMDA50-S10	33 ~ 40 VDC	1.51 ~ 1.25 A	2%	50W
SMDA50-S11	40 ~ 50 VDC	1.25 ~ 1.00 A	2%	50W

Multi Output

Part Number	Output 1				Output 2				Output 3				Max. Output Power
	Vonon	Iomin	Iomax	Regmax	Vonon	Iomin	Iomax	Regmax	Vonon	Iomin	Iomax	Regmax	
SMDA50-D00	+3.3V	0.5A	5A	7%	+12V	0.2A	2A	5%					40W
SMDA50-D01	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%					42W
SMDA50-D02	+5V	0.5A	5A	5%	+15V	0.15A	1.5A	5%					42W
SMDA50-D03	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%					42W
SMDA50-D04	+3.3V	0.5A	5A	7%	+5V	0.2A	2A	5%					26.5W
SMDA50-D09	+12V	0.3A	3A	5%					-12V	0A	1A	5%	42W
SMDA50-D10	+15V	0.2A	2A	5%					-15V	0.1A	1A	5%	42W
SMDA50-D15	+5V	0.5A	5A	5%					-24V	0.1A	1A	5%	42W
SMDA50-D16	+5.1V	0.5A	5A	5%	+7.2V	0.3A	2.6A	5%					42W
SMDA50-D17	+10.5V	0.2A	2A	5%					-10.5V	0A	2A	5%	42W
SMDA50-D18	+5V	0.5A	5A	5%					-5V	0A	2A	5%	35W
SMDA50-T00	+3.3V	0.5A	5A	7%	+12V	0.4A	2A	5%	-12V	0.1A	0.8A	5%	42W
SMDA50-T01	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0A	0.8A	5%	42W
SMDA50-T02	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0.1A	0.8A	5%	42W
SMDA50-T03	+5V	0.5A	5A	5%	+15V	0.4A	2A	6%	-15V	0.1A	0.8A	5%	42W
SMDA50-T04	+5V	0.5A	5A	5%	+24V	0.2A	1A	5%	-24V	0A	0.5A	5%	42W
SMDA50-T05	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-12V	0A	0.8A	5%	42W
SMDA50-T06	+3.3V	0.5A	5A	7%	+12V	0.4A	2A	5%	-5V	0.1A	0.8A	5%	42W

S00, D04, D18 is not approved by PSE

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		50	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.35	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			0.8	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	15	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230 VAC		26	30	A
Efficiency	Io=Full Load, Vin=230VAC	75	83	88	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	7	%
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	1.5	2	S
* Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io= Full Load, Vin=240VAC			0.1	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

* The Ripple & Noise which is under 3.3VDC at 2% max

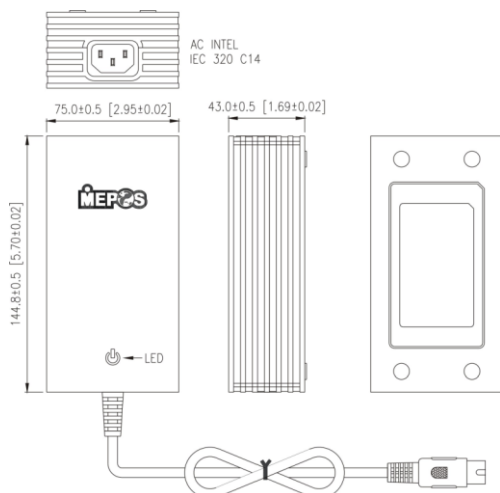
Conditions

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

Approvals and Compliance

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



1. Dimensions are shown in inches or mm.
2. Weight: 510-560gs approx.
3. Optional output connector