SMDA130 SERIES

130W Desktop Power Supply for Medical Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Input Surge Current, Over Voltage, Over Load and Output Voltage Protection.
- Class I Insulation
- Active Power Factor Correction
- Energy Star 2.0, CEC V, and RoHS compliance
- ON/OFF Switch (Optional)

3 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SMDA130-S05	12 VDC	10.84 A	5%	130W
SMDA130-S08	24 VDC	5.42 A	3%	130W

Total Regulation is conditioned by below configuration

(S05: AWG16/2C/4FT output cable)

(S08: 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
Power Factor Correction	Io=Full load, Vin=230 VAC	0.95		1	
Output Power Range	Vin= 90 to 264 VA C	0		130	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.32	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			0.66	A
Low Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=115VAC			30	A
High Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=230VAC			50	A
Efficiency	Io=Full Load, Vin=230VAC		88		%
Line Regulation	Io=Full Load		0.5	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			2	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC			1	%
Safety Ground Leakage Current	Io= Full Load, Vin=240VAC/60Hz			0.1	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

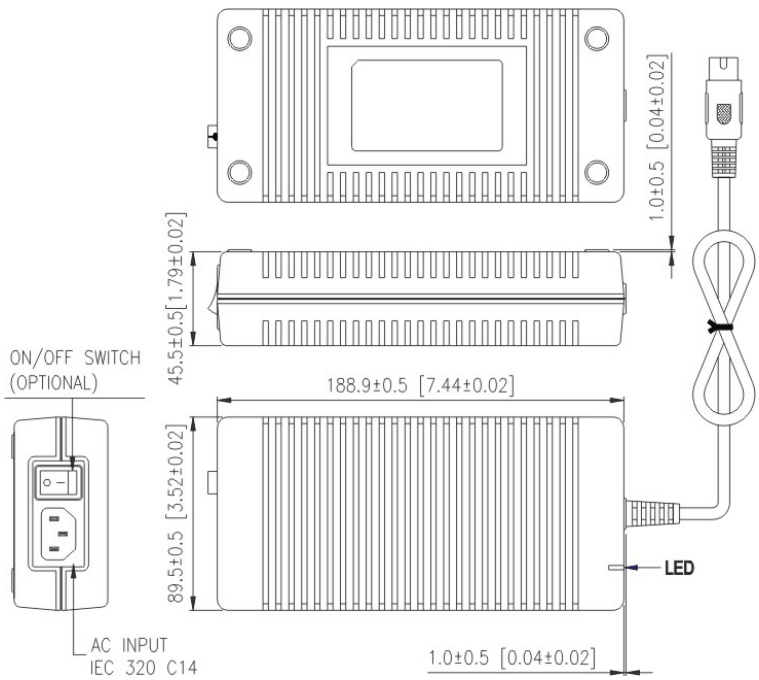
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	40	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 40°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	Io=Full load, Vin=230VAC	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.
2. Weight: 778-800g approx. (Exclude the input cord)
3. Optional output connector.