

SHDA31A SERIES



30W Desktop Power Supply for Medical Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- Output Voltage Available From 5VDC Thru 48VDC
- IEC-320-C18 Input Inlet
- Single Output
- Input Surge Current, Over Load, and Over Voltage Protection.
- CEC Level V, and Energy Star 2.0 Compliance
- Approved as Limited Power Source (LPS)
- Class II Insulation

2 Year Warranty

Approvals:       

Single Output

Part Number	Output Voltage	Max. Output Current	Load Regulation	Maximum Output Power
SHDA31A-S02 *	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20W
SHDA31A-S03 *	6 ~ 8 VDC	3.83 ~ 2.87 A	5%	23W
SHDA31A-S04	8 ~ 11 VDC	3.38 ~ 2.45 A	5%	27W
SHDA31A-S05	11 ~ 13 VDC	2.74 ~ 2.30 A	5%	30W
SHDA31A-S06	13 ~ 16 VDC	2.30 ~ 1.88 A	5%	30W
SHDA31A-S07	16 ~ 21 VDC	1.88 ~ 1.43 A	3%	30W
SHDA31A-S08	21 ~ 27 VDC	1.43 ~ 1.11 A	3%	30W
SHDA31A-S09	27 ~ 33 VDC	1.11 ~ 0.91A	3%	30W
SHDA31A-S10	33 ~ 40 VDC	0.91 ~ 0.75A	3%	30W
SHDA31A-S11	40 ~ 48 VDC	0.75 ~ 0.63A	3%	30W

Mark "*" means approved by PSE.

The model number of S03-S11 had been approved by CEC level V

Total Regulation is conditioned by below configuration

(S02-S04: AWG16/4FT output cable)

(S05-S11: AWG18/6FT output cable)

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 264VAC	0		30	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.9	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.34	A
Low Line Inrush Current	Io=Full load, 25°C Cool start, Vin=115VAC		16	24	A
High Line Inrush Current	Io=Full load, 25°C Cool start, Vin=230VAC		32	48	A
Efficiency	Io=Full Load, Vin=230VAC	78	85	88	%
Line Regulation	Io=Full Load		0.5		%
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	12			mS
Start Up Time	Io=Full Load, Vin=100VAC	0.3	1.5	2	S
Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC			1	%
Temperature Coefficient	All output	-0.04		0.04	%/°C

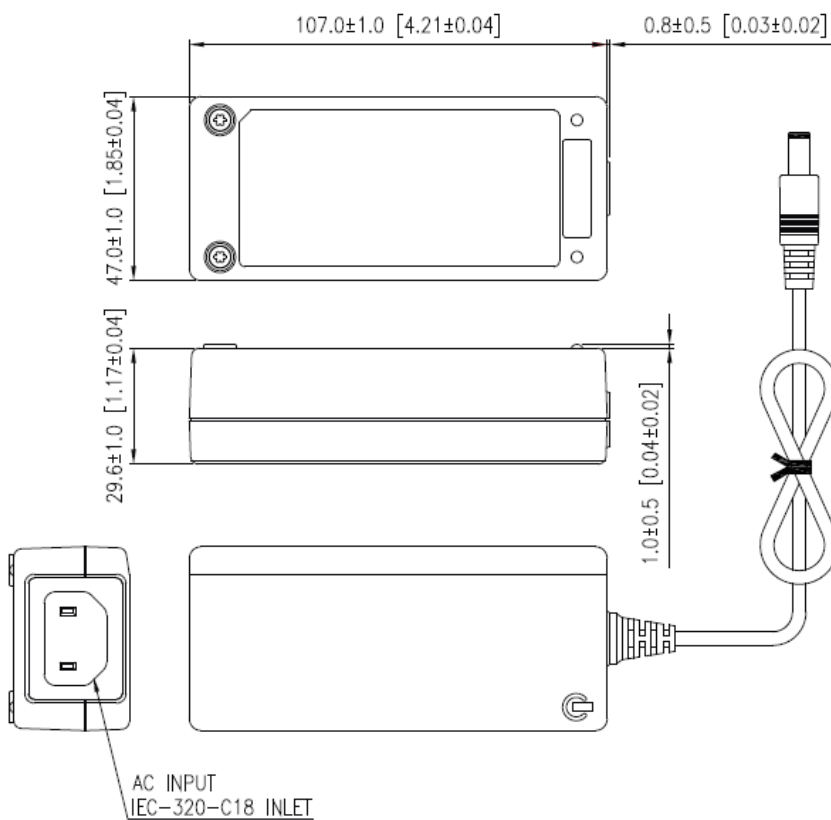
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	40	70	°C
Storage Temperature		-40		85	°C
Relative Humidity	No-Condensing	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
Meet EMI requirements: CISPR-11	Vin=220VAC	B	CLASS
Meet EMI requirements: CRF 47, Part18	Vin=110VAC	B	CLASS

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 265-280g
3. Optional output connector.