SIDA100 SERIES

100W Desktop Power Supply for Industrial Equipment



- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz
- Active Power Factor Correction
- IEC-320-C14 input inlet
- Output Voltage Available From 11VDC Thru 48VDC
- Single Output
- Class I Insulation
- Operating temperature -20~70°C
- Input Surge Current, Over Voltage, Over Load and Output Voltage protection.
- CEC Level V, Energy Star 2.0, and RoHS Compliance

3 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SIDA100-S05	11 ~ 13 VDC	9.09 ~ 7.69 A	5%	100W
SIDA100-S06	13 ~ 16 VDC	7.69 ~ 6.25 A	4%	100W
SIDA100-S07	16 ~ 21 VDC	6.25 ~ 4.76 A	4%	100W
SIDA100-S08	21 ~ 27 VDC	4.76 ~ 3.70 A	4%	100W
SIDA100-S09	27 ~ 33 VDC	3.70 ~ 3.03 A	3%	100W
SIDA100-S10	33 ~ 40 VDC	3.00 ~ 2.50 A	3%	100W
SIDA100-S11	40 ~ 48 VDC	2.50 ~ 2.08 A	3%	100W

Total Regulation is conditioned by below configuration

The total regulation on each model is required to use AWG#18×3C+ AWG#16×3C/4FT output cable.

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		260	VAC
Input Frequency		47		63	Hz
Power Factor Correction	Io=Full load, Vin=230VAC	0.95		1.00	
Output Power Range	Vin=90 to 260VAC	0		100	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			1.35	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.5	A
Low Line Inrush Current	Io=Full load, 25°C ,Cool start, Vin=115VAC		44	50	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		85	100	A
Efficiency	Io=Full Load, Vin=230VAC		87	90	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	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		0.5	1	%
Safety Ground Leakage Current	Io=Full Load, Vin=240VAC/60Hz		0.5	0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

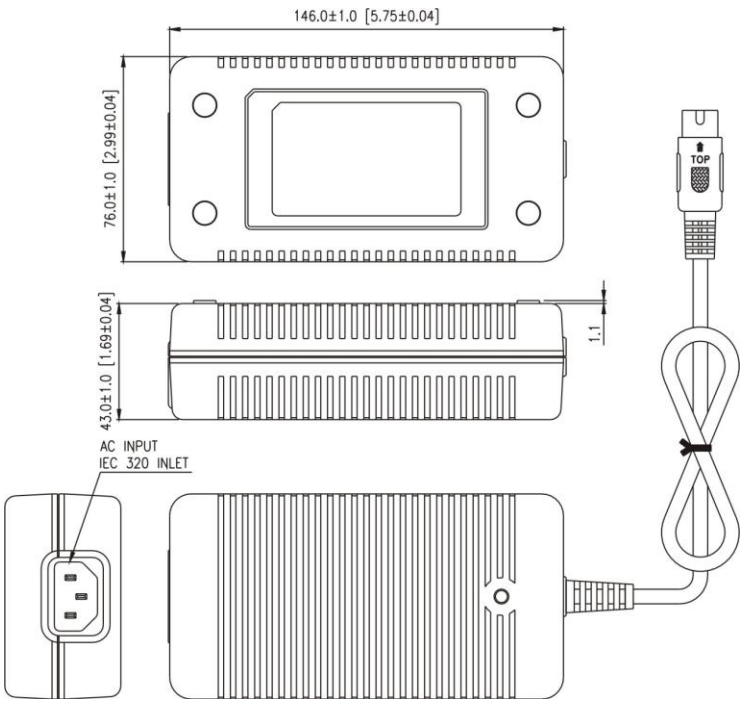
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-20	40	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.1M			Hrs
Derate linearly from 100% load at 40°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	4242	VDC
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121	VDC
Isolation Resistance	Test Voltage = 2100VDC	50	MΩ
EMI requirements for CISPR-11	Vin=230VAC	B	CLASS
EMI requirements for FCC PART-15	Vin=120VAC	B	CLASS

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: 490~670g approx
   (Exclude the input cord)
3. Optional output connector.