SIDA20B SERIES

20W Desktop Power Supply for Industrial Equipment



- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C8 input inlet
- Output Voltage Available From 5VDC Thru 48VDC
- Approved as Limited Power Source (LPS), Splash Proof
- Class II Insulation
- Operating temperature -20~70°C
- Input Surge Current, Over Voltage, and Over Current Protection.
- Energy Star 2.0, CEC V, and RoHS compliance

3 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SIDA20B-S02	5 ~ 6 VDC	3.00 ~ 2.50 A	5%	15W
SIDA20B-S05	11 ~ 13 VDC	1.81 ~ 1.53 A	4%	20W
SIDA20B-S06	13 ~ 16 VDC	1.53 ~ 1.25 A	4%	20W
SIDA20B-S08	21 ~ 27 VDC	0.95 ~ 0.74 A	3%	20W
SIDA20B-S09	27 ~ 33 VDC	0.74 ~ 0.60 A	3%	20W
SIDA20B-S11	40 ~ 48 VDC	0.50 ~ 0.41 A	3%	20W

The output voltage under 15V had been approved by TUV/PSE.
To achieve the total regulation at per model the output cable AWG#18/4FT is adopt.
The regulation will be changed by modified 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		20	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.4	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.25	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=230VAC		26	30	A
Efficiency	Io=Full Load, Vin=230VAC	75	85	95	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC	1	3	5	%
Over Voltage Protection			Nil		%
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	14	16	mS
Start Up Time	Io=Full Load, Vin=100VAC		0.25	0.5	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.5	0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C
No-Load Power Consumption	No load, Vin=240VAC	0		0.3	W

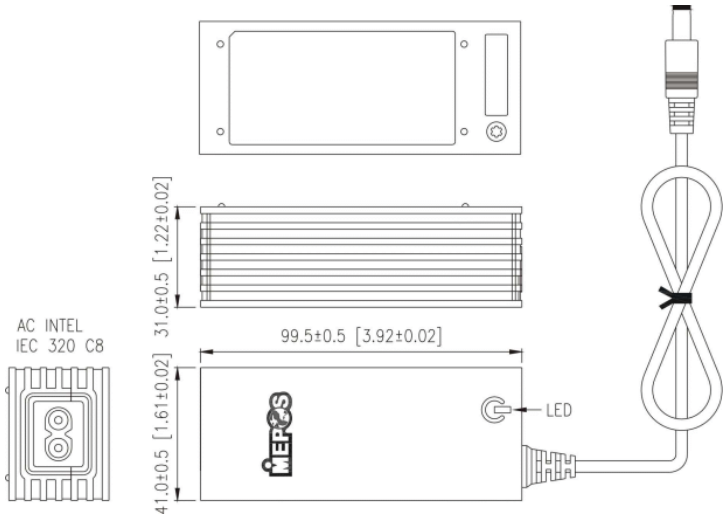
Conditions

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		0.3M			Hrs
Derate 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	4242	VDC
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121	VDC
Isolation Resistance	Test Voltage = 500VDC	50	MΩ
EMI requirements for CISPR-22	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-15	Vin=110VAC	B	CLASS

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 170g
   (Exclude the input cord)
3. Optional output connector