SIDA16C SERIES

15W Desktop Power Supply For Industrial Equipment



- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- Output Voltage available from 3 VDC to 48 VDC
- IEC-320-C6 Input Inlet
- Optional output connector plug
- Splash proof
- Class I Insulation
- Operating temperature -20~70°C
- CEC Level V, Energy Star 2.0, and RoHS Compliance

3 Year Warranty

Approvals:

Single Output

Part Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
* SIDA16C-S01	3 ~ 5 VDC	2.50 A max	7%	12W
SIDA16C-S02	5 ~ 6 VDC	2.50 ~ 2.00 A	5%	12W
SIDA16C-S03	6 ~ 8 VDC	2.00 ~ 1.50 A	5%	12W
SIDA16C-S04	8 ~ 11 VDC	1.87 ~ 1.36 A	5%	15W
SIDA16C-S05	11 ~ 13 VDC	1.36 ~ 1.15 A	5%	15W
SIDA16C-S06	13 ~ 16 VDC	1.15 ~ 0.94 A	5%	15W
SIDA16C-S07	16 ~ 21 VDC	0.94 ~ 0.72 A	5%	15W
SIDA16C-S08	21 ~ 27 VDC	0.72 ~ 0.55 A	5%	15W
SIDA16C-S09	27 ~ 33 VDC	0.55 ~ 0.45 A	5%	15W
SIDA16C-S10	33 ~ 40 VDC	0.45 ~ 0.37 A	3%	15W
SIDA16C-S11	40 ~ 48 VDC	0.37 ~ 0.31 A	3%	15W

* Note: SIDA16C-S01 is not approved by TUV-PSE and CEC Level V

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		15	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.4	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.26	A
Low Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=115VAC		12	15	A
High Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=230VAC		26	30	A
Efficiency	Io=Full Load, Vin=230VAC	72		85	%
No-Load Power Consumption	No Load, VIn=240VAC	0	0.4	0.5	W
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	10	%
Over Voltage Protection			Nil		%
Over Current Protection	Nil But, Output protected to short circuit conditions				%
Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full Load, Vin=110VAC	5			mS
Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	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

*Note: The Ripple & Noise which is under 3.3VCD at 2% max

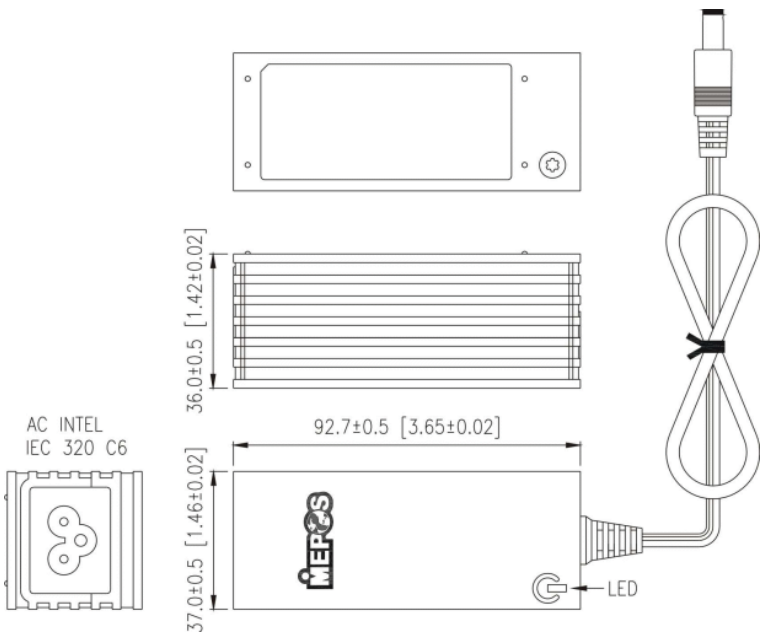
Conditions

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		100			KHrs
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 = 500VDC	50	MΩ
EMI requirements for CISPR-22	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-15	Vin=110VAC	B	CLASS

Mechanical



Note:

1. Dimensions are shown in mm & inch
2. Weight: 165gs approx.
3. (Exclude the input cord)
4. Optional output connector.