

## SIDA46 SERIES



## 50W Desktop Power Supply for Industrial Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Single Output Voltage Available From 5VDC Thru 50VDC
- Class I Insulation
- Operating temperature -20~70°C
- Input Surge Current, Over Voltage, and Over Load protection.
- 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
SIDA46-S02*	05 ~ 06 VDC	8.00 A Max	5%	40W
SIDA46-S03	06 ~ 08 VDC	7.50 ~ 5.62 A	5%	45W
SIDA46-S04	08 ~ 11 VDC	5.62 ~ 4.09 A	4%	45W
SIDA46-S05	11 ~ 13 VDC	4.09 ~ 3.46 A	3%	45W
SIDA46-S06	13 ~ 16 VDC	3.46 ~ 2.81 A	3%	45W
SIDA46-S07	16 ~ 21 VDC	3.12 ~ 2.38 A	3%	50W
SIDA46-S08	21 ~ 27 VDC	2.38 ~ 1.85 A	2%	50W
SIDA46-S09	27 ~ 33 VDC	1.85 ~ 1.51 A	2%	50W
SIDA46-S10	33 ~ 40 VDC	1.51 ~ 1.25 A	2%	50W
SIDA46-S11	40 ~ 50 VDC	1.25 ~ 1.00 A	2%	50W

\* S02 is not approved by TUV-PSE.

Total Regulation is conditioned by below configuration

(S02: AWG16/5C/4FT output cable)

(S05: AWG18/3C/4FT output cable)

(S11: AWG18/2C/4FT 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		50	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			1.1	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.55	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	23	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		26	45	A
Efficiency	Io=Full Load, Vin=230VAC	83	85	88	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	15	%
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	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

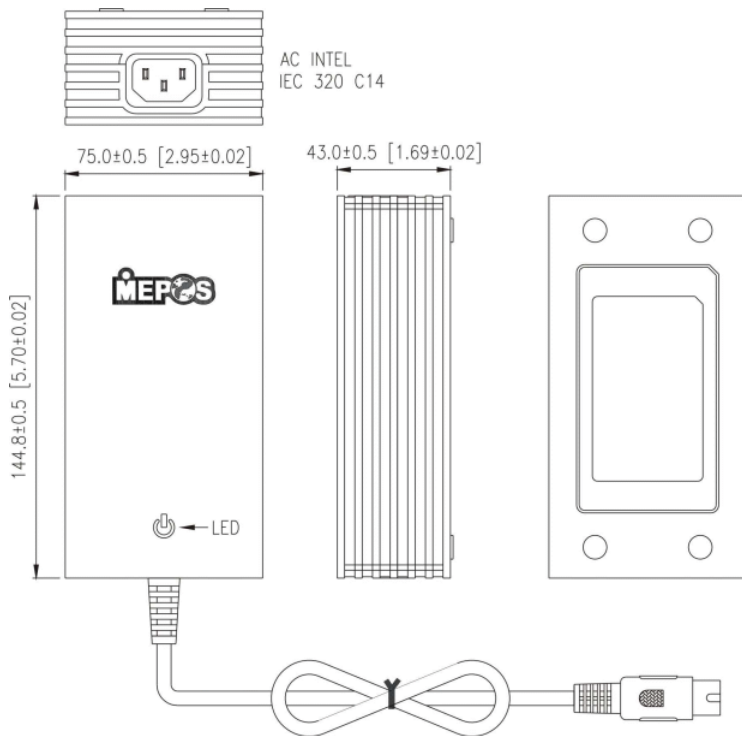
## Conditions

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 = 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. 535~560g  
(Exclude the input cord)
3. Optional output connector.