SIDA45 SERIES

50W Desktop Power Supply for Industrial Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available From 2VDC Thru 50VDC
- Input Surge Current, Over Voltage and Overload Protection
- Operating temperature -20~70°C
- Single to Triple Output
- Class I Insulation

3 Year Warranty

Approvals:

Single Output

Part Number	Output Voltage	Max. Output Current	Total Regulation	Max Output Power
SIDA45-S00	02 ~ 03 VDC	8.00 A max	7%	24W
SIDA45-S01	03 ~ 05 VDC	8.00 A max	5%	40W
SIDA45-S02	05 ~ 06 VDC	8.00 ~ 6.66 A	5%	40W
SIDA45-S03	06 ~ 08 VDC	7.00 ~ 5.25 A	5%	42W
SIDA45-S04	08 ~ 11 VDC	5.63 ~ 4.00 A	4%	45W
SIDA45-S05	11 ~ 13 VDC	4.00 ~ 3.46 A	3%	45W
SIDA45-S06	13 ~ 16 VDC	3.46 ~ 2.81 A	3%	45W
SIDA45-S07	16 ~ 21 VDC	3.12 ~ 2.38 A	3%	50W
SIDA45-S08	21 ~ 27 VDC	2.30 ~ 1.85 A	2%	50W
SIDA45-S09	27 ~ 33 VDC	1.85 ~ 1.51 A	2%	50W
SIDA45-S10	33 ~ 40 VDC	1.51 ~ 1.25 A	2%	50W
SIDA45-S11	40 ~ 50 VDC	1.25 ~ 1.00 A	2%	50W

Multi Output

Model Number	Output 1				Output 2				Output 3				Max Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
SIDA45-D00	+3.3V	0.5A	5A	7%	+12V	0.3A	2A	5%					40W
SIDA45-D01	+5V	0.5A	5A	5%	+12V	0.3A	2A	5%					42W
SIDA45-D02	+5V	0.8A	5A	7%	+15V	0.3A	1.5A	5%					42W
SIDA45-D03	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%					42W
SIDA45-D04	+3.3V	0.5A	5A	7%	+5V	0.2A	2A	5%					26.5W
SIDA45-D09	+12V	0.3A	3A	5%					-12V	0.1A	1A	5%	42W
SIDA45-D10	+15V	0.2A	2A	5%					-15V	0.1A	1A	5%	42W
SIDA45-D15	+5V	0.5A	5A	5%					-24V	0.1A	1A	5%	42W
SIDA45-D16	+5.1V	0A	1A	5%					+7.2V	0.2A	2.6A	5%	23.82W
SIDA45-T00	+3.3V	1.0A	5A	7%	+12V	0.3A	2A	5%	-12V	0.1A	0.8A	5%	42W
SIDA45-T01	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0A	0.8A	5%	42W
SIDA45-T02	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0A	0.8A	5%	42W
SIDA45-T03	+5V	0.5A	5A	5%	+15V	0.3A	2A	6%	-15V	0A	0.8A	5%	42W
SIDA45-T04	+5V	0.5A	5A	5%	+24V	0.2A	1A	5%	-24V	0A	0.5A	5%	42W
SIDA45-T05	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-12V	0A	0.8A	5%	42W
SIDA45-T06	+3.3V	0.5A	5A	7%	+12V	0.4A	2A	5%	-5V	0A	0.8A	5%	42W

SIDA45-S01,D04,D15,T05,T06 is not approved by TUV-PSE

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-20	40	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operating Temperature at 25°C, calculated per MIL-HDBK-217F		0.1 M			Hrs
De-rate linearly from 100% load at 40°C to 50% load at 70°C					

Electrical Characteristics

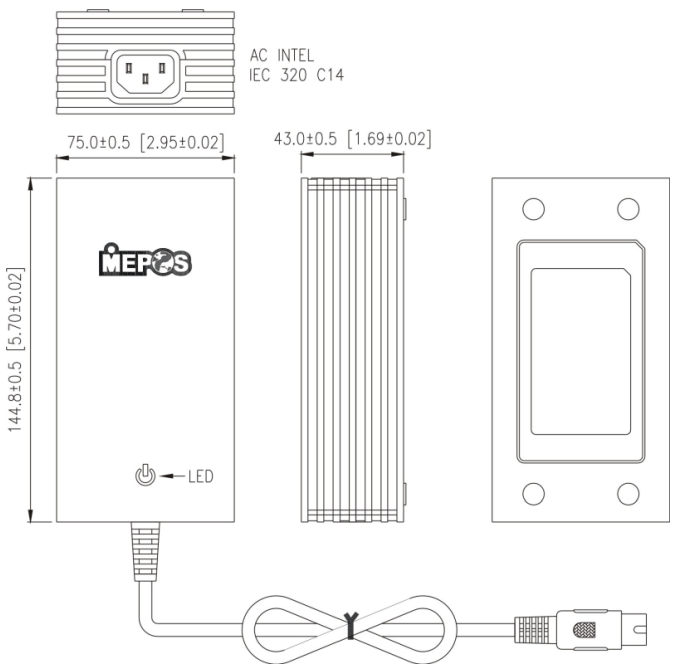
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=90 to 264VAC	0		50	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			1.35	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.8	A
Low Line Inrush Current	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	75	83	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

*The Ripple & Noise which is under 3.3VDC at 2% max

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 (Not applicable for class II)	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 inches or mm.
2. Weight: 535-560gs approx.
3. Optional output connector.