SIDA65 SERIES

80W 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 3VDC Thru 48VDC
- Single to Quad Output
- Input Surge Current, Over Voltage, Over Load and Output Voltage protection.
- Operating temperature -20~70°C
- Class I Insulation
- High Efficiency, RoHS compliance

3 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SIDA65-S01	3 ~ 5 VDC	16.6 ~ 10.0 A	7%	50W
SIDA65-S02	5 ~ 6 VDC	13.0 ~ 10.8 A	7%	65W
SIDA65-S03	6 ~ 8 VDC	11.6 ~ 8.70 A	5%	69.6W
SIDA65-S04	8 ~ 11 VDC	9.37 ~ 6.81 A	5%	75W
SIDA65-S05	11 ~ 13 VDC	7.27 ~ 6.15 A	5%	80W
SIDA65-S06	13 ~ 16 VDC	6.15 ~ 5.00 A	5%	80W
SIDA65-S07	16 ~ 21 VDC	5.00 ~ 3.80 A	5%	80W
SIDA65-S08	21 ~ 27 VDC	3.80 ~ 2.96 A	5%	80W
SIDA65-S09	27 ~ 33 VDC	2.96 ~ 2.42 A	5%	80W
SIDA65-S10	33 ~ 40 VDC	2.42 ~ 2.00 A	5%	80W
SIDA65-S11	40 ~ 48 VDC	2.00 ~ 1.66 A	5%	80W

Multi Output

Model Number	Output 1				Output 2				Output 3				Output 4				Maximum Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
STDA65-D00	+3.3V	0.7A	7A	7%	+12V	0.55A	2.75A	5%									56.1W
STDA65-D01	+5V	0.7A	7A	5%	+12V	0.6A	3A	5%									65W
STDA65-D02	+5V	1.4A	7A	5%	+15V	0.6A	3A	7%									65W
STDA65-D03	+5V	1.4A	7A	5%	+24V	0.3A	2A	5%									65W
STDA65-D04	+3.3V	1.4A	7A	7%	+5V	0.6A	3A	5%									38.1W
STDA65-D15	+5V	1.4A	7A	5%					-24V	0.4A	2A	5%					65W
STDA65-T00	+3.3V	1.4A	7A	7%	+12V	0.6A	3A	5%	-12V	0.1A	0.8A	5%					65W
STDA65-T01	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-5V	0A	0.8A	5%					65W
STDA65-T02	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-12V	0A	0.8A	5%					65W
STDA65-T03	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%					65W
STDA65-T04	+5V	0.7A	7A	5%	+24V	0.2A	2A	5%	-24V	0A	0.8A	5%					65W
STDA65-T05	+5V	0.6A	6A	5%	+24V	0.2A	2A	5%	-12V	0A	0.8A	5%					65W
STDA65-T06	+3.3V	0.7A	7A	7%	+12V	0.6A	3A	5%	-5V	0A	0.8A	5%					63.1W
STDA65-403	+5V	0A	3.5A	5%	+24V	0.1A	1.5A	5%	+12V	0A	0.25A	5%	-12V	0A	0.15A	5%	65W

S01, D15 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		0.1M			Hrs
De-rate linearly from 100% load at 40°C to 50% load at 70°C					

Electrical Characteristics

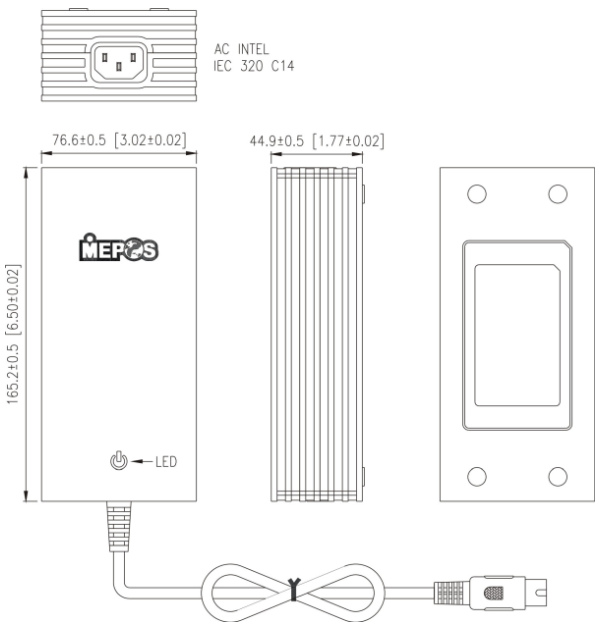
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin= 90 to 264 VAC	0		80	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.9	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			1.5	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		26	30	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230 VAC		48	55	A
Efficiency	Io=Full Load, Vin=230VAC	75	83	88	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		5	7	%
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

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

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. 570~750g approx. (Exclude the input cord)
3. Optional output connector.