

SIDA130 SERIES

130W Desktop Power Supply for Industrial Equipment

- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz
- IEC-320-C14 input inlet and optional AC cords (EU, UK, US, Japan types)
- Input Surge Current, Over Voltage, Over Load and Output Voltage Protection.
- **Low Temperature Solution (-20°C)**, Long Hold-Up Time (50ms)
- Active Power Factor Correction (PFC), Include a Cooling Fan
- RoHS2 compliance
- (Optional) ON/OFF Switch, (Optional) Mounting Tab

5 Year Warranty
Approvals:
Single Output

Product Number	Output Voltage	Max. Output Current	Regulation	Max. Output	Approvals & Compliance
SIDA130-S05	11 ~ 13 VDC	11.80 ~ 10.00 A	±5%	130W	UL/CUL, ITS-GS, CE, CB, CCC, FCC, PSE, RoHS2
SIDA130-S06	13 ~ 16 VDC	10.00 ~ 8.12 A	±5%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2
SIDA130-S07	16 ~ 21 VDC	8.12 ~ 6.19 A	±5%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2
SIDA130-S08	21 ~ 27 VDC	6.19 ~ 4.81 A	±5%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2
SIDA130-S09	27 ~ 33 VDC	4.81 ~ 3.93 A	±5%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2
SIDA130-S10	33 ~ 40 VDC	3.93 ~ 3.25 A	±3%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2
SIDA130-S11	40 ~ 50 VDC	3.25 ~ 2.60 A	±3%	130W	UL/CUL, ITS-GS, CE, CB, CCC, FCC, PSE, RoHS2
SIDA130-S12	50 ~ 55 VDC	2.60 ~ 2.36 A	±3%	130W	UL/CUL, ITS-GS, CE, CB, CCC, PSE, RoHS2

Dual Output

Product Number	Output Voltage (Vout1, Vout2)	Max. Output Current (Io1, Io2)	Minimum Output Current (Io1, Io2)	Regulation	Max. Output	Approvals & Compliance
SIDA130-D00	+3.3VDC, +12VDC	20A, 2A	4A, 0A	±7%, ±5%	90W	UL/cUL, TUV-GS, CE, CB, IRAM, PSE, RoHS2
SIDA130-D01	+5VDC, +12 VDC	20A, 2A	4A, 0A	±7%, ±5%	120W	UL/cUL, TUV-GS, CE, CB, IRAM, PSE, RoHS2
SIDA130-D01-1	+5VDC, +12 VDC	10A, 5A	2A, 1A	±5%, ±10%	110W	UL/cUL, TUV-GS, CE, CB, IRAM, PSE, RoHS2
SIDA130-D02	+5VDC, +15 VDC	20A, 2A	4A, 0A	±7%, ±5%	120W	UL/cUL, TUV-GS, CE, CB, IRAM, PSE, RoHS2
SIDA130-D03	+5VDC, +24 VDC	20A, 2A	4A, 0.2A	±7%, ±5%	120W	UL/cUL, TUV-GS, CE, CB, PSE, RoHS2

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		260	VAC
Input Frequency		47		63	Hz
Power Factor Correction	Io=Full load, Vin=230 VAC	0.95		1	
Output Power Range	Vin= 90 to 264 VA C	(See output specifications)			W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			3.2	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			1.3	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC			30	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC			72	A
Efficiency	Io=Full Load, Vin=230VAC	60		80	%
Line Regulation	Io=Full Load	0.5		1	%
Load Regulation	Vin=230VAC	3		10	%
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			50	mS
Start Up Time	Io=Full Load, Vin=100VAC			3	S
* Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		1	2	%
Safety Ground Leakage Current	Io= Full Load, Vin=240VAC/60Hz			0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

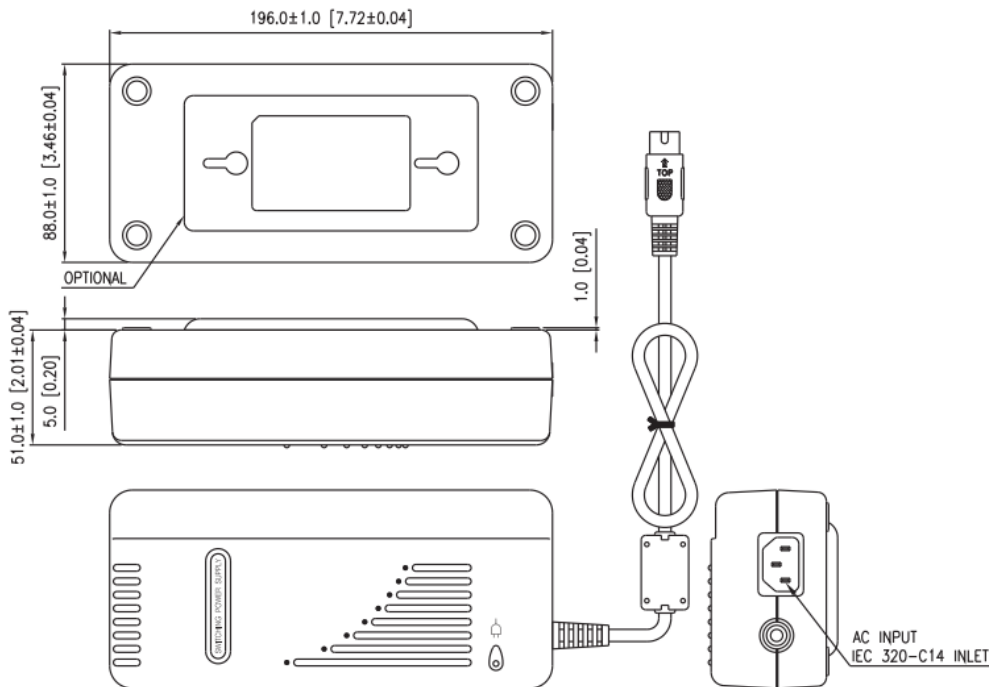
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature (Please see the derating curve)	(See derating chart)	-20		70	°C
Storage Temperature		-40		85	°C
Operating / Storage Humidity	No-condensing	0		95	%
MTBF Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		100			K Hrs

Approvals and Compliance

Parameter	Test Conditions	Max	Unit
Dielectric Withstanding Voltage	Primary to secondary	4242	VDC
Dielectric Withstanding Voltage	Primary to PE	2121	VDC
Safety	UL/c-UL0950-1:2nd Edition), TUV/GS(EN60950-1:2nd Edition)		
Environmental Compliance	RoHS2		

Mechanical Diagram and Technical Chart



Note:

1. Dimensions are shown in mm.
2. Weight: 490-670g approx. (Exclude the input cord)
3. Optional output connector.

Derating Curve:

