STDA131 SERIES

130W Desktop Power Supply for I.T. Equipment



- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Output Voltage Available from 12VDC through 55VDC
- Input Surge Current, Over Voltage, Over Load and Output Voltage Protection.
- Class I Insulation
- Active Power Factor Correction
- CEC Level V, Energy Star 2.0 and RoHS compliance
- ON/OFF Switch (optional)

2 Year Warranty

Approvals:

Single Output

Part Number	Output Voltage	Max. Output Current	Total Regulation	Max Output Power
STDA131-S05	12 ~ 13 VDC	10.84 ~ 10.00 A	5%	130W
STDA131-S06	13 ~ 16 VDC	10.00 ~ 8.12 A	5%	130W
STDA131-S07	16 ~ 21 VDC	8.12 ~ 6.19 A	5%	130W
STDA131-S08	21 ~ 27 VDC	6.19 ~ 4.81 A	3%	130W
STDA131-S09	27 ~ 33 VDC	4.81 ~ 3.93 A	3%	130W
STDA131-S10	33 ~ 40 VDC	3.93 ~ 3.25 A	3%	130W
STDA131-S11	40 ~ 50 VDC	3.25 ~ 2.60 A	3%	130W
STDA131-S12	50 ~ 55 VDC	2.60 ~ 2.36 A	3%	130W

The total regulation on S05~S06 required to use AWG#16x5C/4FT output cable.

The total regulation on S07 required to use AWG#16x4C/4FT output cable.

The total regulation on S08~S10 required to use AWG#16x2C/4FT output cable.

The total regulation on S11~S12 required to use AWG#18x2C/4FT output cable.

The regulation and efficiency will be changed by modified output cable.

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=230VAC	0.95		1.00	
Output Power Range	Vin=90 to 260VAC	0		130	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			1.32	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.66	A
Low Line Inrush Current	Io=Full load, 25℃ ,Cool start, Vin=115VAC			30	A
High Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=230VAC			50	A
Efficiency	Io=Full Load, Vin=230VAC		88		%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		5		%
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			2	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC			1	%
Safety Ground Leakage Current	Io=Full Load, Vin=240VAC			0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

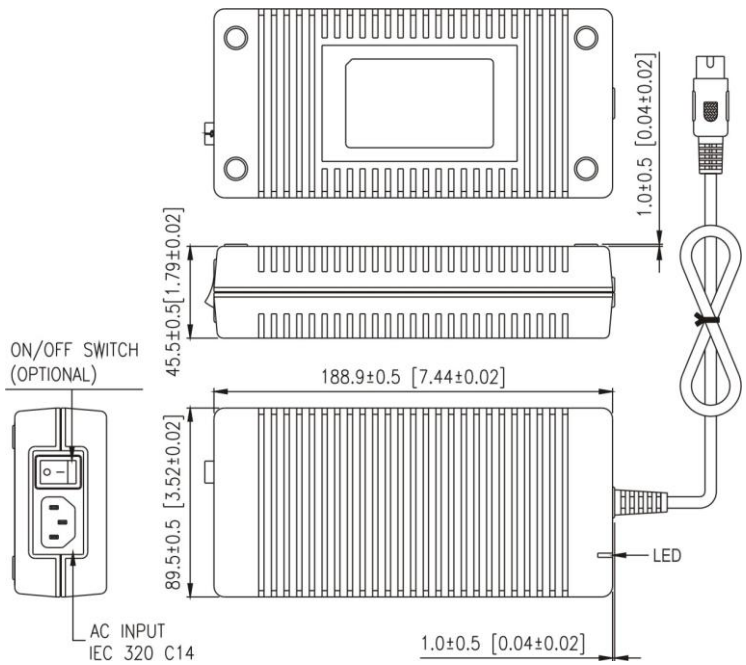
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	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	Io=Full load, Vin=230VAC	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: 778~800g approx
   (Exclude the input cord)
3. Optional output connector.