

STDA100 SERIES

100W Desktop Power Supply for I.T. Equipment



- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz, Active Power Factor Correction
- IEC-320-C14 input inlet
- Output Voltage Available From 11VDC Thru 48VDC
- Single Output, Class I Insulation
- Input Surge Current, Over Voltage, Over Load and Output Voltage protection.
- Energy Efficiency Level 6, and RoHS Compliance

2 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
STDA100-S05	11 ~ 13 VDC	9.09 ~ 7.69 A	5%	100W
STDA100-S06	13 ~ 16 VDC	7.69 ~ 6.25 A	4%	100W
STDA100-S07	16 ~ 21 VDC	6.25 ~ 4.76 A	4%	100W
STDA100-S08	21 ~ 27 VDC	4.76 ~ 3.70 A	4%	100W
STDA100-S09	27 ~ 33 VDC	3.70 ~ 3.03 A	3%	100W
STDA100-S10	33 ~ 40 VDC	3.03 ~ 2.50 A	3%	100W
STDA100-S11	40 ~ 48 VDC	2.50 ~ 2.08 A	3%	100W

This series is required to use AWG#18x3C + AWG#16x3C / 4FT output cable.

The electrical characteristics will be changed by modified output cable.

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Safety Approval	100		240	VAC
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 VAC	0		100	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.2	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			0.5	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC			50	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230 VAC			100	A
Efficiency	Io=Full Load, Vin=230VAC		87	90	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	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			0.25	mA
No-Load Power Consumption	No load, Vin=240VAC			0.5	W
Temperature Coefficient	All output	-0.04		0.04	%/°C

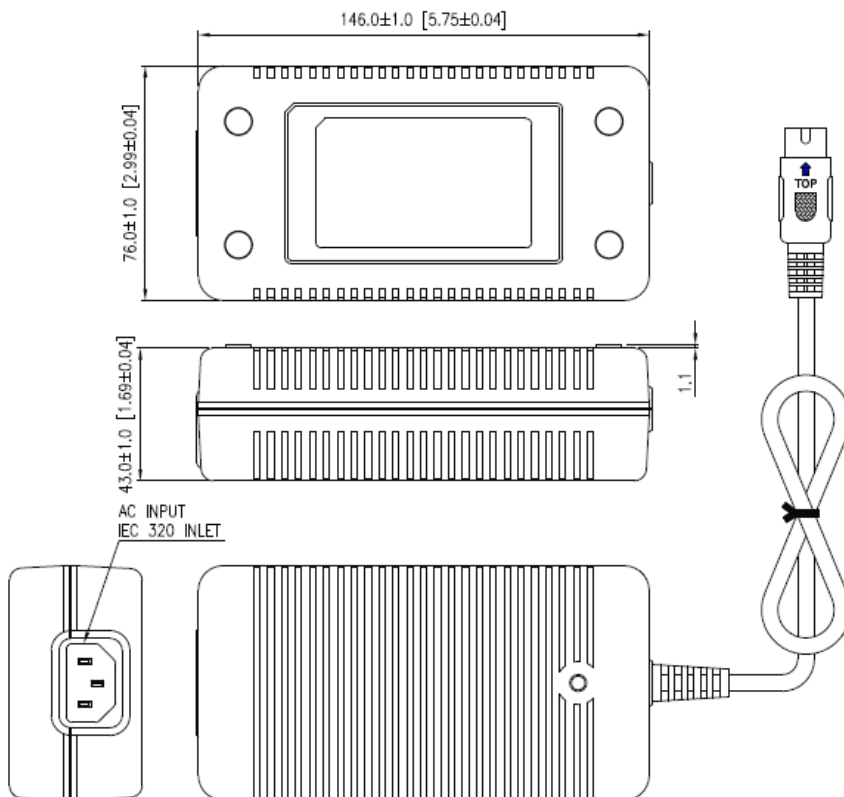
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0		70	°C
Storage Temperature		-40		85	°C
Operating/Storage Humidity	Non-condensed	0		95	%
Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.1			MHrs
Derate linearly from 100% load at 50°C to 50% load at 70°C					

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 PE	Primary to PE	2652	VDC
Isolation Resistance	Test Voltage = 2100VDC	50	MΩ
EMI requirements for CISPR-11	Vin=220VAC	CLASS B	
EMI requirements for FCC PART-18	Vin=110VAC	CLASS B	
Safety UL/c-UL, TUV/T-mark, FCC, CE, CB	UL 60950-1, EN 609501-1, IEC 60950-1		
Environmental Compliance	RoHS, Energy Star 2.0, CEC Level V		

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 460-670gs (Exclude the input cord)
3. Optional output connector.

Derating Chart:

