

STDA151B SERIES
150W Desktop Power Supply for IT Equipment


- Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C8 Input Inlet
- Single Output
- Over Voltage Protection
- Active Power Factor Correction
- DoE VI

3 Year Warranty
Approvals:
Single Output

Model Number	Output Voltage (Factory setting, can't be adjusted)	Output Current (Based on the output volt.)	Total Regulation	Maximum Output Power	Typ. Efficiency	Typ. No Load Consumption
STDA151B-S05	12.0 VDC	12.5 A	±5%	150W	88%	0.21W
STDA151B-S06	15.0 VDC	10.0 A	±5%	150W	88%	0.21W
STDA151B-S07	19.0 VDC	7.89 A	±5%	150W	89%	0.21W
STDA151B-S08	24.0 VDC	6.25 A	±4%	150W	89%	0.21W
STDA151B-S09	30.0 VDC	5.00 A	±3%	150W	90%	0.21W
STDA151B-S10	36.0 VDC	4.16 A	±3%	150W	90%	0.21W
STDA151B-S11	48.0 VDC	3.12 A	±3%	150W	91%	0.21W

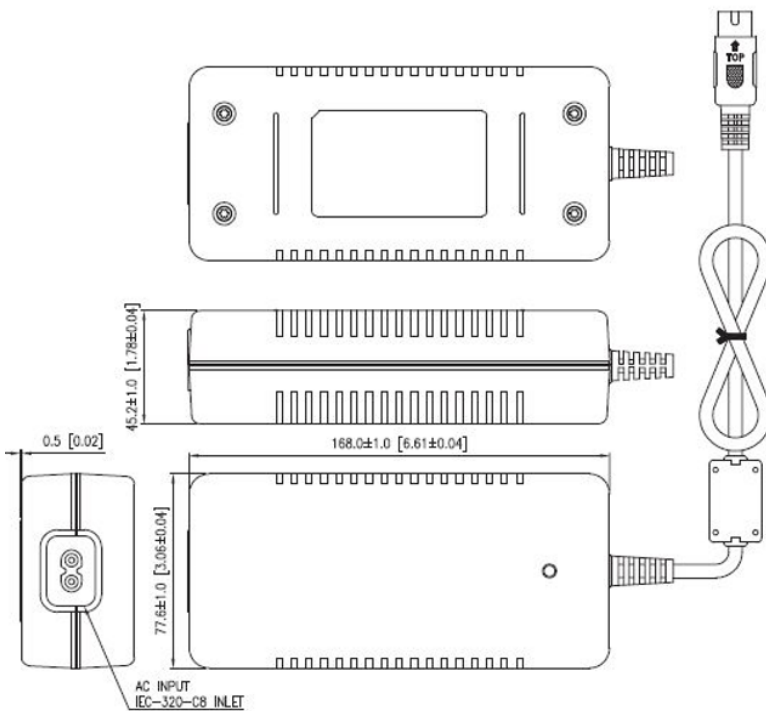
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction		0.95		1	
Output Power Range	See Rating Chart			150	W
Low Line Input Current	Full load, Vin=100VAC		2		A
High Line Input Current	Full load, Vin=240VAC		0.8		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			60	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			120	A
Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	88		91	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
Over Voltage Protection	Latch off, recycle input to reset	112		132	%
Over Load Protection	Nil.But, Output protected to short circuit conditions				%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=110VAC			16	ms
Start Up Time	Full Load, Vin=100~240VAC			2	s
Insulation Resistance	Primary to Secondary, 500VDC, 25°C/ 70% RH	50			MΩ
Temperature Coefficient	All Condition			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary, limit current<10 mA			4242	VDC
EMC Emission	Compliance to EN55032 (CISPR32), EN55024	B			Class

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 40°C to 50% load at 70°C)	-20		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV
Mean Time Between Failure	Operation Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h
Operating Altitude (Elevation)	All Condition			5000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	kV

Mechanical Diagram



OUTPUT CABLE RECOMMEND:

1. Selected output connectors and wire, please refer to Appendix.
2. STDA151B-S05~S07 is required to use AWG#16/5C/4FT output cable.
3. STDA151B-S08~S11 is required to use AWG#14/2C/4FT output cable.
4. The regulation and efficiency will be changed by modified output cable.
5. STDA151B-S05~S11 output cable must with core.

PACKING:

1. Net weight: 720~750g approx.
2. Optional output connectors available contact sales for details.

Derating Curve

