STDA16A SERIES

15W Desktop Power Supply for IT Equipment

- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Optional Output Connector (See appendix)
- Single Output
- Class I system
- DoE VI, CoC v5 (tier 2) (except STDA16A-S01)

3 Year Warranty

Approvals: RoHS2

Single Output

Part Number	Range of Fixed Voltage	Max. Output Current	Total Regulation	Max Output
* STDA16A-S01	3 ~ 5 VDC	2.50 A max	±5%	12W
STDA16A-S02	5 ~ 5.99 VDC	2.50 ~ 2.00 A	±5%	12W
STDA16A-S03	6 ~ 8 VDC	2.00 ~ 1.50 A	±5%	12W
STDA16A-S04	8 ~ 11 VDC	1.87 ~ 1.36 A	±5%	15W
STDA16A-S05	11 ~ 13 VDC	1.36 ~ 1.15 A	±5%	15W
STDA16A-S06	13 ~ 16 VDC	1.15 ~ 0.94 A	±5%	15W
STDA16A-S07	16 ~ 21 VDC	0.94 ~ 0.72 A	±5%	15W
STDA16A-S08	21 ~ 27 VDC	0.72 ~ 0.55 A	±5%	15W
STDA16A-S09	27 ~ 33 VDC	0.55 ~ 0.45 A	±5%	15W
STDA16A-S10	33 ~ 40 VDC	0.45 ~ 0.37 A	±3%	15W
STDA16A-S11	40 ~ 48 VDC	0.37 ~ 0.31 A	±3%	15W

STDA16A-S01 is required to use AWG#16/4FT output cable.
STDA16A-S02~S07 are required to use AWG#18/4FT output cable.
STDA16A-S08~S11 are required to use AWG#20/4FT output cable.
The regulation and efficiency will be changed by modified output cable.

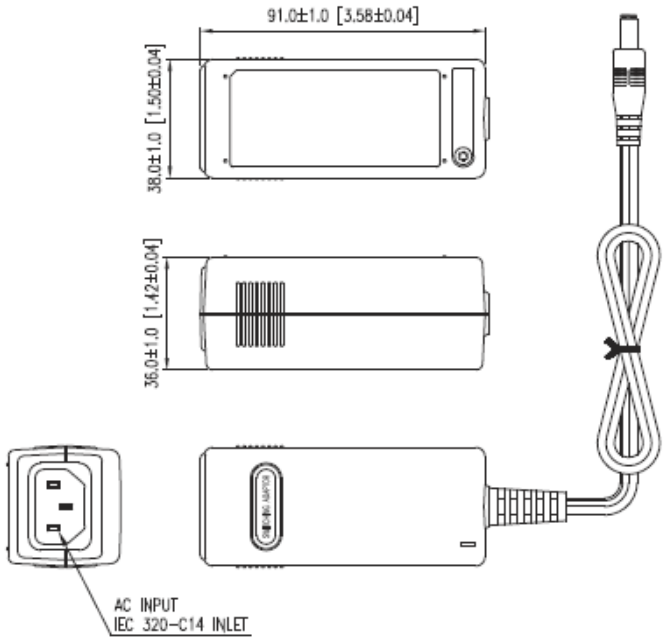
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			15	W
Low Line Input Current	Full load, Vin=100VAC		0.4		A
High Line Input Current	Full load, Vin=240VAC		0.16		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC	35		45	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC	70		90	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	69		86	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		7	%
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=100VAC			8	ms
Start Up Time	Full Load, Vin=100~240VAC			2	s
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
Dielectric Withstanding Voltage (P-G)	Primary to PE			2121	VDC
EMC Emission	Compliance to EN55022(CISPR22)			B	Class

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	0		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 , Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			2000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

Mechanical Diagram and Derating Chart



Note:

1. Dimensions are shown in mm & inch
2. Weight: 165gs approx.
   (Exclude the input cord)
3. Optional output connector.

Derating Chart: