

STDA45 SERIES

50W Desktop Power Supply for I.T. Equipment



- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Single to Triple Output
- Crowbar Mode Over Voltage Protection
- High Altitude of 5000m
- DoE VI (Selected Dual and Triple output models only)

5 Year Warranty

Approvals: UL CB CE FCC CCC PS E VI RoHS2

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
STDA45-S01	03 ~ 05 VDC	8.00 A	±5%	40W
STDA45-S02	05 ~ 06 VDC	8.00 ~ 6.66 A	±5%	42W
STDA45-S03	06 ~ 08 VDC	7.00 ~ 5.25 A	±5%	42W
STDA45-S04	08 ~ 11 VDC	5.63 ~ 4.00 A	±5%	45W
STDA45-S05	11 ~ 13 VDC	4.00 ~ 3.46 A	±5%	45W
STDA45-S06	13 ~ 16 VDC	3.46 ~ 2.81 A	±5%	45W
STDA45-S07	16 ~ 21 VDC	3.12 ~ 2.38 A	±5%	50W
STDA45-S08	21 ~ 27 VDC	2.30 ~ 1.85 A	±3%	50W
STDA45-S09	27 ~ 33 VDC	1.85 ~ 1.51 A	±3%	50W
STDA45-S10	33 ~ 40 VDC	1.51 ~ 1.25 A	±3%	50W
STDA45-S11	40 ~ 50 VDC	1.25 ~ 1.00 A	±3%	50W

STDA45-S01~S11 are not in compliance with DoE VI.

Multi Output

Model Number	Output 1				Output 2				Output 3				Max Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
STDA45-D00	+3.3V	0.5A	5A	±7%	+12V	0.3A	2A	±5%					40W
STDA45-D01	+5V	0.5A	5A	±5%	+12V	0.3A	2A	±5%					42W
STDA45-D02	+5V	0.8A	5A	±7%	+15V	0.3A	1.5A	±5%					42W
STDA45-D03	+5V	0.5A	5A	±5%	+24V	0.1A	1A	±5%					42W
STDA45-D04	+3.3V	0.5A	5A	±7%	+5V	0.2A	2A	±5%					26.5W
STDA45-D09	+12V	0.3A	3A	±5%					-12V	0.1A	1A	±10%	42W
STDA45-D10	+15V	0.2A	2A	±5%					-15V	0.1A	1A	±10%	42W
STDA45-D15	+5V	0.5A	5A	±5%					-24V	0.1A	1A	±10%	42W
STDA45-D16	+5.1V	0A	1A	±5%					+7.2V	0.2A	2.6A	±5%	23.82W
STDA45-T00	+3.3V	1.0A	5A	±7%	+12V	0.3A	2A	±5%	-12V	0.1A	0.8A	±5%	42W
STDA45-T01	+5V	0.5A	5A	±5%	+12V	0.2A	2A	±5%	-5V	0A	0.8A	±5%	42W
STDA45-T02	+5V	0.5A	5A	±5%	+12V	0.2A	2A	±5%	-12V	0A	0.8A	±5%	42W
STDA45-T03	+5V	0.5A	5A	±5%	+15V	0.4A	2A	±6%	-15V	0A	0.8A	±5%	42W
STDA45-T04	+5V	0.5A	5A	±5%	+24V	0.2A	1A	±5%	-24V	0A	0.5A	±5%	42W
STDA45-T05	+5V	0.5A	5A	±5%	+24V	0.1A	1A	±5%	-12V	0A	0.8A	±5%	42W
STDA45-T06	+3.3V	0.5A	5A	±7%	+12V	0.4A	2A	±5%	-5V	0A	0.8A	±5%	42W

Electrical Characteristics

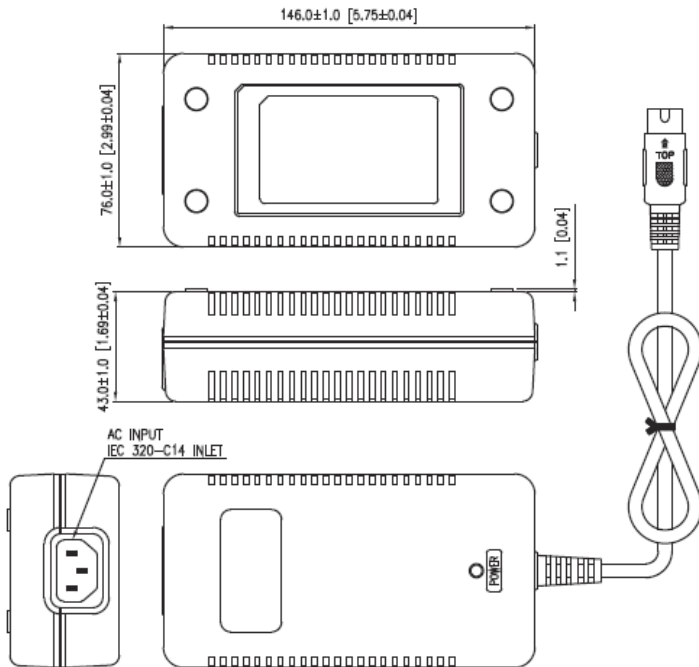
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			50	W
Low Line Input Current	Full load, Vin=100VAC		1.35		A
High Line Input Current	Full load, Vin=240VAC		0.56		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			20	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			48	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	65		84.2	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		5	%
Over Voltage Protection	Over Voltage Protection	112		132	%
Over Load Protection	Recovers automatically after fault conditions is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			12	ms
Start Up Time	Full Load, Vin=100~240VAC			3	s
* Ripple & Noise (Peak to Peak)			1	2	%
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

* The Ripple & Noise is under 3.3VDC or 5VDC at 2% max.

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			5000	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

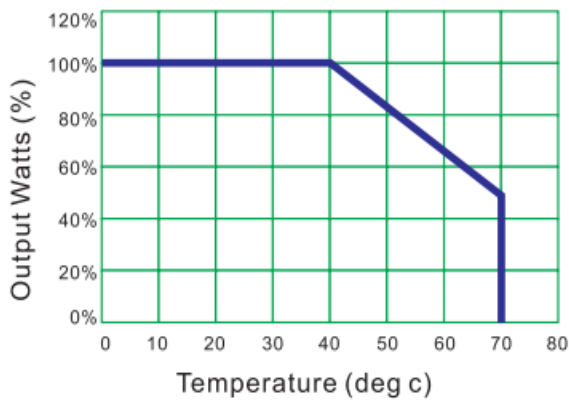
Mechanical Diagram



Note:

1. Dimensions are shown in inches or mm.
2. Weight: 535-560gs approx.
3. Optional output connector.

Derating Chart



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C