STUA150 SERIES

150W U-Bracket Power Supply for I.T. Equipment

- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz
- Single Output
- Output voltage available from 9 to 48 VDC
- Input Surge Current and Overload protection
- Over Voltage Protection (Crowbar Design)
- Class I Insulation
- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing 09-50-3131and Molex 2478 series crimp terminal
- Size: 3.21"x5"x1.62"
- Synchronous Rectification
- Active Power Factor Correction

2 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
STUA150-S04	9 VDC	16.0 A	5%	144W
STUA150-S05	12 VDC	12.5 A	5%	150W
STUA150-S06	15 VDC	10.0 A	5%	150W
STUA150-S07	18 VDC	8.33 A	4%	150W
STUA150-S08	24 VDC	6.25 A	3%	150W
STUA150-S09	30 VDC	5.00 A	2%	150W
STUA150-S10	36 VDC	4.17 A	2%	150W
STUA150-S11	48 VDC	3.13 A	2%	150W

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 = 90-260VAC	0.95	0.97	1.0	
Output Power Range	Vin=90 to 264VAC	0		150	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			2.0	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.8	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		48	54	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		58	63	A
Efficiency	Io=Full Load, Vin=230VAC	85	88	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	0.3	1	2	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.4	0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
De-rate linearly from 100% load at 50°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	Test Voltage=500VDC	50	MΩ
EMI requirements for CISPR-22	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-15	Vin=110VAC	B	CLASS

Mechanical

PIN CHART

MODEL \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
STUA150-SXX-13pin	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	PFD

Note:

1. Dimensions are shown in inches or mm.
2. Weight: 560gs approx.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal