

STFA151 SERIES

150W Open Frame Power Supply for I.T. Equipment

- Wide Operating Voltage 90 to 260 VAC, 47 to 63Hz
- Internal EMI Filter
- Active Power Factor Correction
- Crowbar Mode Over Voltage Protection
- Synchronous Rectification
- Single Output
- Class I system

3 Year Warranty

Approvals:

Single Output

Part Number	Output Voltage	Output Current	Total Regulation	Max. Output Power
STFA151-S04	9 VDC	16A	5%	150W
STFA151-S05	12 VDC	12.5A	5%	150W
STFA151-S06	15 VDC	10.0A	5%	150W
STFA151-S07	18 VDC	8.33A	4%	150W
STFA151-S08	24 VDC	6.25A	3%	150W
STFA151-S09	30 VDC	5.00A	2%	150W
STFA151-S10	36 VDC	4.17A	2%	150W
STFA151-S11	48 VDC	3.13A	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 264 VAC	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=S00VAC			4	mS
Hold-Up Time	Io=Full load, Vin=150VAC	16			mS
Start Up Time	Io=Full load, Vin=S00VAC	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

* Note: The Ripple & Noise which is under 3.3VDC at 2% max

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		0.1			M 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=150VAC	B	CLASS
Safety UL/c-UL, TUV/GS, CE	UL 60950-1, EN 60950-1, IEC 60950-1		

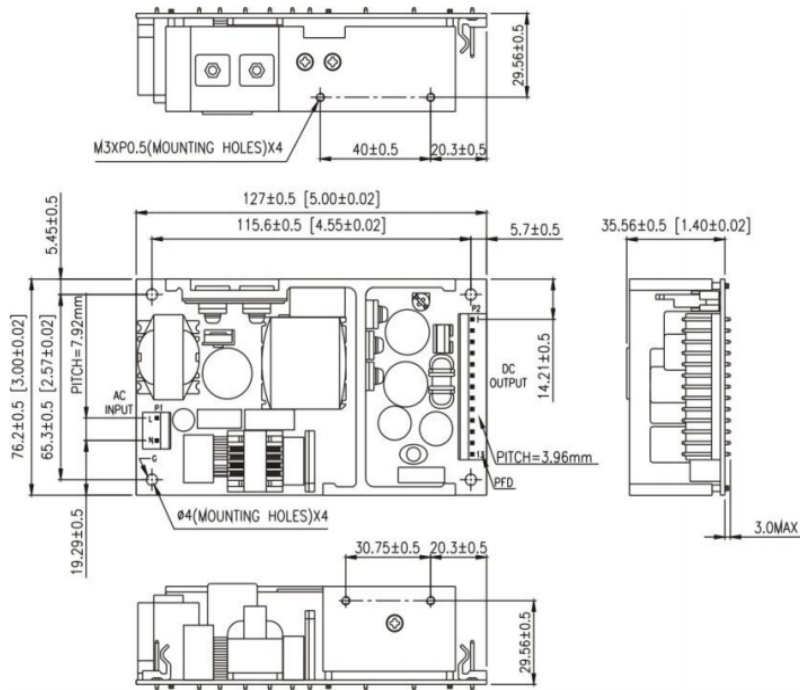
Mechanical Diagram and Technical Chart

PIN CHART

MODEL	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
STFA151-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: 390gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal



Derating Chart

