

STFA58 SERIES



60W Open Frame Power Supply for I.T. Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- Internal EMI Filter
- Input Connector mates with Molex housing 35977-0300 and Molex 35922 terminal.
- Single Output Voltage Available From 5VDC Thru 48VDC
- Size: 2"x4"x1"
- Class I Insulation
- Input Surge Current, Over Load and Over Voltage Protection

2 Year Warranty

Approvals:    

Single Output

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power
STFA58-S02	5 ~ 6 VDC	8.00 ~ 6.66 A	5%	40W
STFA58-S03	6 ~ 8 VDC	8.00 ~ 6.00 A	5%	48W
STFA58-S04	8 ~ 11 VDC	6.87 ~ 5.00 A	5%	55W
STFA58-S05	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W
STFA58-S06	13 ~ 16 VDC	4.61 ~ 3.75 A	5%	60W
STFA58-S07	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W
STFA58-S08	21 ~ 27 VDC	2.85 ~ 2.22 A	3%	60W
STFA58-S09	27 ~ 33 VDC	2.22 ~ 1.81 A	3%	60W
STFA58-S10	33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W
STFA58-S11	40 ~ 48 VDC	1.50 ~ 1.20 A	2%	60W

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin= 90 to 264 VAC	0		60	W
Input Current (Low Line)	Io=Full load, Vin=115 VAC			1.2	A
Input Current (High Line)	Io=Full load, Vin= 230 VAC			0.6	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	15	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230 VAC		26	30	A
Efficiency	Io=Full Load, Vin=230VAC	77	80	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	12			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
No-Load Power Consumption	No Load, Vin=240VAC	0.1		0.5	W

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	40	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operation temperature at 25°C, calculated per MIL-HDBK-217F		100			KHrs
Derate linearly from 100% load at 40°C to 50% load at 70°C					

Approvals and Compliances

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

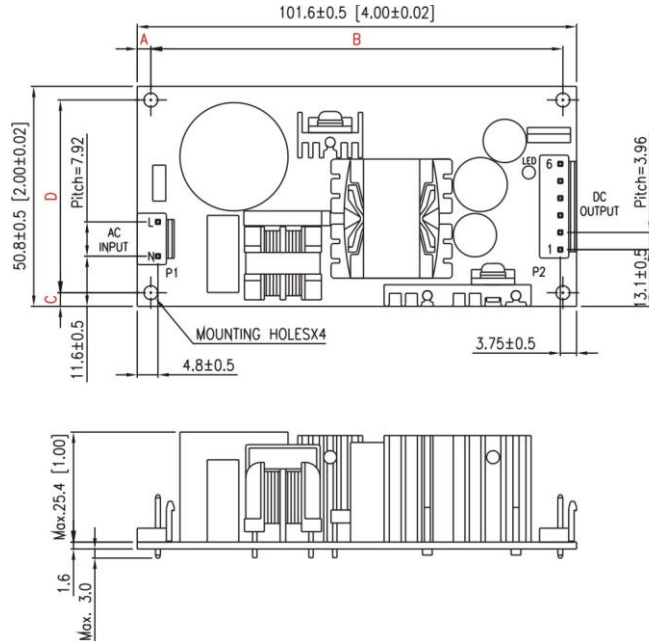
Mechanical and PIN Out

PIN CHART

PIN	1	2	3	4	5	6
MODEL	OUT	OUT	OUT	RTN	RTN	RTN
STFA58-SXX	OUT	OUT	OUT	RTN	RTN	RTN

Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 140g
3. Input connector mates with Molex housing 35977-0300 and Molex 35922 series crimp terminal.



P/N: STFA58-XXX-H3
or STFA58-XXX-H4

	H3	H4
MOUNTING HOLES	3.2±0.5	4.0±0.5
A	3.15±0.5	4.3±0.5
B	95.3±0.5	93.0±0.5
C	3.15±0.5	4.0±0.5
D	44.5±0.5	42.8±0.5