

STFA150 SERIES



150W Open Frame 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 09-50-3131 and Molex 2478 series crimp terminal
- Size: 3"x5"x1.4"
- Synchronous Rectification
- Active Power Factor Correction

2 Year Warranty

Approvals:    

Single Output

| Product Number | Output Voltage | Output Current | Total Regulation | Maximum Output Power |
|----------------|----------------|----------------|------------------|----------------------|
| STFA150-S04 | 9 VDC | 16.0 A | 5% | 144W |
| STFA150-S05 | 12 VDC | 12.5 A | 5% | 150W |
| STFA150-S06 | 15 VDC | 10.0 A | 5% | 150W |
| STFA150-S07 | 18 VDC | 8.33 A | 4% | 150W |
| STFA150-S08 | 24 VDC | 6.25 A | 3% | 150W |
| STFA150-S09 | 30 VDC | 5.00 A | 2% | 150W |
| STFA150-S10 | 36 VDC | 4.17 A | 2% | 150W |
| STFA150-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) |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| STFA150-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 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal

