

STFA80 SERIES



80W Open Frame Power Supply for I.T. Equipment

- Wide Input Voltage 90 to 260 VAC, 47 to 63Hz
- Dual to Triple Output
- Output voltage available from 3.3 to 24 VDC
- Input Surge Current and Overload protection
- Class I Insulation
- Active Power Factor Correction
- 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"x1.18"

2 Year Warranty

Approvals:    

Multi Output

| Product Number | Output #1 | | | | Output #2 | | | | Output #3 | | | | Maximum Output Power |
|----------------|-----------|-------|-------|--------|-----------|-------|-------|--------|-----------|-------|-------|--------|----------------------|
| | Vonom | Iomin | Iomax | Regmax | Vonom | Iomin | Iomax | Regmax | Vonom | Iomin | Iomax | Regmax | |
| STFA80-D00 | +3.3V | 1.2A | 12A | 7% | +12V | 0.5A | 5A | 5% | | | | | 80W |
| STFA80-D01 | +5V | 1.2A | 12A | 5% | +12V | 0.5A | 5A | 5% | | | | | 80W |
| STFA80-D02 | +5V | 1.2A | 12A | 5% | +15V | 0.5A | 5A | 5% | | | | | 80W |
| STFA80-D03 | +5V | 1.2A | 12A | 5% | +24V | 0.3A | 3A | 5% | | | | | 80W |
| STFA80-D04 | +3.3V | 1.2A | 12A | 7% | +5V | 0.5A | 5A | 5% | | | | | 64.6W |
| STFA80-D15 | +5V | 1.2A | 12A | 5% | | | | | -24V | 0A | 2A | 5% | 80W |
| STFA80-T00 | +3.3V | 1.2A | 12A | 7% | +12V | 0.5A | 5A | 5% | -12V | 0A | 0.8A | 5% | 80W |
| STFA80-T00-1 | +3.3V | 1.2A | 12A | 7% | +12V | 0.5A | 5A | 5% | +12V | 0A | 0.8A | 5% | 80W |
| STFA80-T01 | +5V | 1.2A | 12A | 5% | +12V | 0.5A | 5A | 5% | -5V | 0A | 0.8A | 5% | 80W |
| STFA80-T01-1 | +5V | 1.2A | 12A | 5% | +12V | 0.5A | 5A | 5% | +5V | 0A | 0.8A | 5% | 80W |
| STFA80-T02 | +5V | 1.2A | 12A | 5% | +12V | 0.5A | 5A | 5% | -12V | 0A | 0.8A | 5% | 80W |
| STFA80-T02-1 | +5V | 1.2A | 12A | 5% | +12V | 0.5A | 5A | 5% | +12V | 0A | 0.8A | 5% | 80W |
| STFA80-T03 | +5V | 1.2A | 12A | 5% | +15V | 0.5A | 5A | 5% | -15V | 0A | 0.8A | 5% | 80W |
| STFA80-T03-1 | +5V | 1.2A | 12A | 5% | +15V | 0.5A | 5A | 5% | +15V | 0A | 0.8A | 5% | 80W |
| STFA80-T04 | +5V | 1.2A | 12A | 5% | +24V | 0.3A | 3A | 5% | -24V | 0A | 0.8A | 5% | 80W |
| STFA80-T04-1 | +5V | 1.2A | 12A | 5% | +24V | 0.3A | 3A | 5% | +24V | 0A | 0.8A | 5% | 80W |
| STFA80-T05 | +5V | 1.2A | 12A | 5% | +24V | 0.3A | 3A | 5% | -12V | 0A | 0.8A | 5% | 80W |
| STFA80-T05-1 | +5V | 1.2A | 12A | 5% | +24V | 0.3A | 3A | 5% | +12V | 0A | 0.8A | 5% | 80W |
| STFA80-T06 | +3.3V | 1.2A | 12A | 7% | +12V | 0.5A | 5A | 5% | -5V | 0A | 0.8A | 5% | 80W |
| STFA80-T06-1 | +3.3V | 1.2A | 12A | 7% | +12V | 0.5A | 5A | 5% | +5V | 0A | 0.8A | 5% | 80W |
| STFA80-T07 | +5V | 1.2A | 12A | 5% | +10V | 0.5A | 5A | 5% | -10V | 0A | 1.0A | 5% | 80W |
| STFA80-T07-1 | +5V | 1.2A | 12A | 5% | +10V | 0.5A | 5A | 5% | +10V | 0A | 1.0A | 5% | 80W |
| STFA80-T08 | +3.3V | 1.2A | 12A | 7% | +5V | 0.5A | 5A | 5% | -12V | 0A | 1.0A | 5% | 76.6W |
| STFA80-T08-1 | +3.3V | 1.2A | 12A | 7% | +5V | 0.5A | 5A | 5% | -12V | 0A | 1.0A | 5% | 76.6W |

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 | 0.91 | 1.0 | |
| Output Power Range | Vin=90 to 264VAC | 0 | | 80 | W |
| Input Current (Low Line) | Io=Full load, Vin=115VAC | | | 2.0 | A |
| Input Current (High Line) | Io=Full load, Vin=230VAC | | | 1.0 | A |
| Low Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=115VAC | | 39 | 45 | A |
| Efficiency | Io=Full Load, Vin=230VAC | | 82 | 88 | % |
| Line Regulation | Io=Full Load | | 0.5 | 1 | % |
| Load Regulation | Vin=230VAC | | 5 | 7 | % |
| 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 |

* 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 | | 0.1M | | | 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 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| STFA80-D15-13pin | N/C | N/C | Vo1 | Vo1 | Vo1 | Vo1 | COM | COM | COM | Vo3 | COM | COM | N/C |
| STFA80-DXX-13pin | Vo2 | Vo2 | Vo1 | Vo1 | Vo1 | Vo1 | COM | COM | COM | N/C | COM | COM | N/C |
| STFA80-TXX-13pin | Vo2 | Vo2 | Vo1 | Vo1 | Vo1 | Vo1 | COM | COM | COM | Vo3 | COM | COM | N/C |

Note: Vo1: Output#1 Vo2: Output#2 Vo3: Output#3

Note:

- Dimensions are shown in inches or mm.
- Weight: 350gs approx.
- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
- Output connector mates with Molex housing 09-50-3061 (or 09-50-3081) and Molex 2478 series crimp terminal

