

TMG-F80X Series

800 Watts, 1000 Watts Peak

Active PFC with Universal Input
 For IT & Medical



DESCRIPTION

The TMG-F80X Series is a high wattage power supply with three different mounting planes including DIN rail. The TMG-F80X Series features a side mounted cooling fans for a stable continuous 800 Watts of power peaking at 1000 Watts for 8 second duration.

FEATURES

- Power Factor Correction
- Very High Efficiency
- Universal input 90VAC to 264VAC
- Standard Over Voltage and Current Protection
- Three different mounting configurations
- Peak Load of 1000 Watts (8 sec.)

APPLICATIONS

- "Mission Critical" application
- Telecommunication
- Industrial
- Battery charging system
- LED Display/ Signage

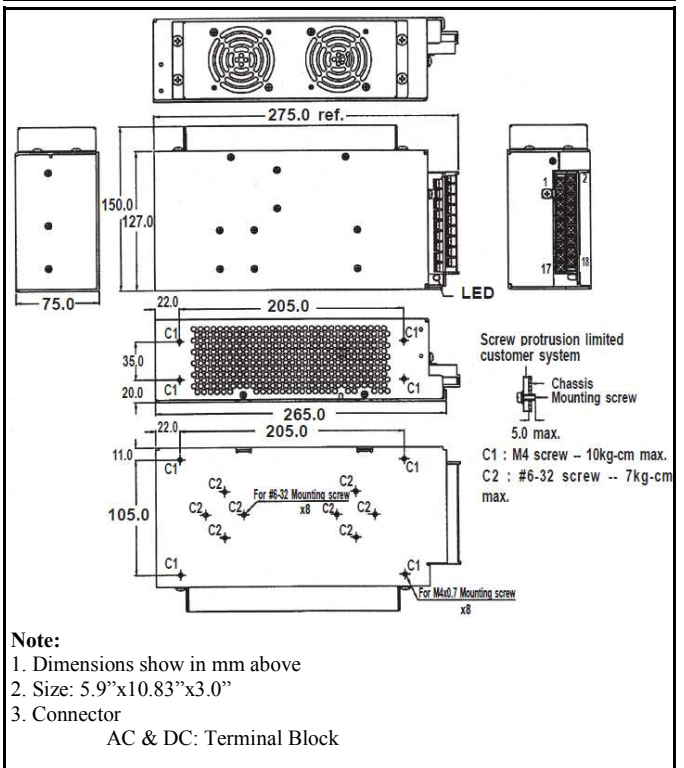
GENERAL SPECIFICATIONS

| | |
|----------------------------|--|
| Input Voltage..... | 90VAC to 264VAC |
| Input Frequency..... | 47Hz to 63Hz |
| Power Factor..... | >0.93 |
| Inrush Current (cold)..... | Less than 10A at 115VAC or 20A at 230VAC cold start, 25°C |
| Operating Temperature..... | 0 to 50°C |
| Storage Temperature..... | -20°C to 85°C |
| Cooling..... | fan cooling |
| Efficiency..... | .86-90% Typical |
| Holdup Time..... | >12ms |
| Overload Protection..... | Auto Recovery |

Safety (Modules):

| | |
|---------------------------------------|-----------------------------|
| Designed in full compliance with..... | UL 60950-1 UL 60601-1 |
| EMI..... | EN55022 "B" |
| Harmonics..... | EN61000-3-2 class D |
| EMS..... | EN61000-4-2,-3,-4,-5,-6,-11 |

MECHANICAL SPECIFICATIONS



OUTPUT SPECIFICATIONS

| Model | Watts | Voltage (Vdc) | Load (A) | | | Voltage Tolerance | Ripple & Noise | Regulation | |
|----------|-------|---------------|----------|-------|-------|-------------------|----------------|------------|------|
| | | | Min. | Rate | Peak | | | Line | Load |
| TMG-F807 | 800 | +12V | 0.2A | 66.7A | 83.5A | +11.9V~+12.1V | 240 mV | ±1% | ±1% |
| TMG-F809 | 800 | +24V | 0.2A | 33.5A | 42A | +23.9V~+24.1V | 240 mV | ±1% | ±1% |
| TMG-F80G | 800 | +28V | 0.2A | 28.5A | 35.7A | +27.8V~+28.2V | 250 mV | ±1% | ±1% |
| TMG-F80J | 800 | +36V | 0.2A | 22.2A | 27.8A | +35.6V~+36.4V | 360 mV | ±1% | ±1% |
| TMG-F80T | 800 | +48V | 0.2A | 16.7 | 20.8A | +47.0V~+49.0V | 480 mV | ±1% | ±1% |

Note: To order medical model add suffix "-M" to end of ITE model name e.g. TMG-F807-M

PIN ASSIGNMENT

| | | | | | | | | | |
|------------|---|----|----|----|----|-----|-----|-----|-----|
| Pin No. | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 |
| Pin Assign | L | PE | +V | +V | NC | GND | GND | NC | RS+ |
| Pin No. | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Pin Assign | N | NC | +V | +V | +V | GND | GND | GND | RS- |

Note: Contact factory for Safety Agency Approved status.

- Each output can provide up to max load separately when the power supply starts up. Exceeding the max. output power continuously is not allowed.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.
- The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope. Each output is terminated with a 0.47 μF capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time when the main output drops down to low limit output of main output at rated load and nominal line.
- Efficiency is measured at rated load and nominal line.
- EMI filter (Delta 15GEEG3E-R) has to be used for the requirements of EMI.
- Installations (A), (B) and (C) can achieve 100% rated load.