

ISO 9001
REGISTERED**Quad Output Family with Active PFC (0.98min)**

INDOOR USE ONLY!

GENERAL SPECIFICATIONS**1. ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:** Universal 90VAC To 264VAC**INPUT FREQUENCY:** 47 Hz-63 Hz for All Units.**INPUT CURRENT:** Less than 4 Amps RMS.**OUTPUT VOLTAGE:** See Rating Table**RATED OUTPUT POWER:** See Rating Table**OUTPUT CURRENT:** No load to full load, no minimum load required**OUTPUT RIPPLE(PEAK TO PEAK):** 1% or 100 mV max, whichever is smaller; except for 3.3V out units which are 50mV maximum.**OUTPUT REGULATION (LINE/LOAD):** For single output units: +/- 5%; for multiple output units: +/- 5%; for main output +/- 5%; for second output and +/- 10%; for third and fourth output, measured at the end of output connector, with a 10% Min. Load on the main output.**ADJUSTABILITY:** +/- 10% Main Output**REMOTE SENSING (OPTION):** Provides regulation within +/- 2% of nominal voltage of main output. For 3.3V single output or 3.3V main of multi-output, Remote Sensing required.**TURN-ON/TURN-OFF OVERSHOOT:** 5% Maximum for all units.**TURN-ON DELAY:** 0.5 Seconds Maximum**HOLD-UP TIME:** 20 mS minimum at Nominal Line (120 VAC) for all units.**INRUSH CURRENT:** Less then 20 AMPS peak for North American Units, less then 40 AMPS peak for European and Universal units at cold start**EFFICIENCY:** 75% Typical at full load.**SWITCHING FREQUENCY:** 100 KHz Typical**OVER-VOLTAGE PROTECTION:** Basic protection limits the output voltages below 130% of the nominal voltage. Other options:

A) Shut down without latching. The units will shut down when over-voltage protection is activated at 130% of the nominal value, and automatically recover when the fault is removed.

B) Shut down and latched. The units will shut down when over-voltage protection is activated at 130% of the nominal value, and remain shutdown even after the fault is removed. The units can only be reset by cycling the input power.

OVER-CURRENT/SHORT-CIRCUIT PROTECTION: Hiccup, automatic recovery.**OTHER PROTECTION:** Input fusing, thermal shutdown.**SAFETY APPROVALS:****ITE MODELS:** UR to UL 60950, CUR to 22.2 #950, EN60950**MEDICAL MODELS:** UR to UL2601-1, C-UR to 22.2 # 601, EN60601**LINE SURGE:** EN61000-4-5 Level 4**EMI:** Complies with EN55022, EN55011, Class B and FCC Part 15 Class B when tested with a resistive load, both conducted and radiated.**CE MARK:** Tested to comply with EN50082-1 Including EN61000-4-2(System Level), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, EN61000-3-2, Class D Equipment, Active PFC Front Module. EN61000-3-3, Unit is eligible for CE mark.**PFC (POWER FACTOR CORRECTION):** 0.98 Min. for all units**MTBF:** Greater then 50,000 hours calculated, stress analysis, ground fix environment**OPERATING TEMPERATURE:** 0°C to 40°C**HUMIDITY:** 0 to 90% Relative Humidity**STORAGE TEMPERATURE:** -40°C to 80°C



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MECHANICAL: INCH (mm)

2. CONFIGURATION:

Open frame switching power supply, with mounting holes, positioned as shown below.
Option: PCB Mount, with in/out connectors headers pins on PCB solder side.

3. INPUT CONNECTOR:

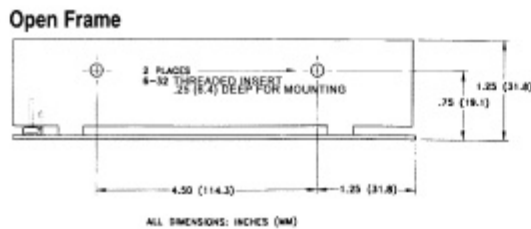
3.1 OPEN FRAME CONFIGURATION:

Straight square pin locking header, with .312 (7.92) between conductors, .045 (1.14) square pins, tin plated UL 94V-0 rated nylon housing, Molex no. 09-65-208 (5 circuits, with 2 pins removed). Header mates with Molex no. 2139 connector or equivalent.

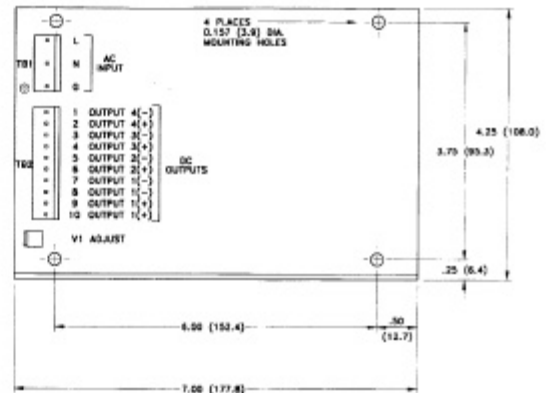
3.2 PCB MOUNT CONFIGURATION:

Straight square pin non-locking header, with .312 (7.92) between conductors .045 (1.14) Square pins, tin plated UL94V-0 rated nylon base, Molex: 09-67-4051(5 circuits, with 2 pins removed), system board soldered.

SIDE VIEW



TOP VIEW



OUTPUT WIRING DIAGRAM

QUAD:GT-3Q200P-44F		SINGLE: GT-3S200P-5.0F	
PIN 1: -15V	PIN 6: +24V	PIN 1: COM	PIN 6 +5V
PIN 2: COM	PIN 7: COM	PIN 2: COM	PIN 7: +5V
PIN 3: COM	PIN 8: COM	PIN 3: COM	PIN 8: +5V
PIN 4: +15V	PIN 9: +5V	PIN 4: COM	PIN 9: +5V
PIN 5: COM	PIN 10: +5V	PIN 5: COM	PIN 10: +5V

4. OUTPUT CONNECTOR:

4.1 OPEN FRAME:

10 pin straight square pin friction lock header, Molex no.26-48-1105 UL 94V-0 rated nylon housing. .156 (3.96) between conductors, .045(1.14) square pins, tin plated, header mates with Molex no. 2139 connectors or equivalents.

4.1.1 REMOTE SENSE:

2 pin straight pin header with locking ramp, with UL 94V-0 rated nylon base, .100 (2.54) pitch between conductors, .025 (0.64) square pins, tin plated, Molex no.27-28-0020; header mates with Molex no.10-11-2023 connector or equivalent

4.2 PCB MOUNT:

10 Pin straight square pin non-locking header with .156 (3.96) between conductors .045 (1.14) square pins, tin plated UL 94V-O rated nylon base, Molex no. 09-67-4101, system board soldered.

4.2.1 REMOTE SENSE:

2 pin straight square pin non-locking header with .100 (2.54) pitch between conductors, .025 (0.64) square pins, tin plated UL 94V-0 rated nylon base, Molex no. 22-28-4020, system board soldered.



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MECHANICAL, CONT. INCH (mm)

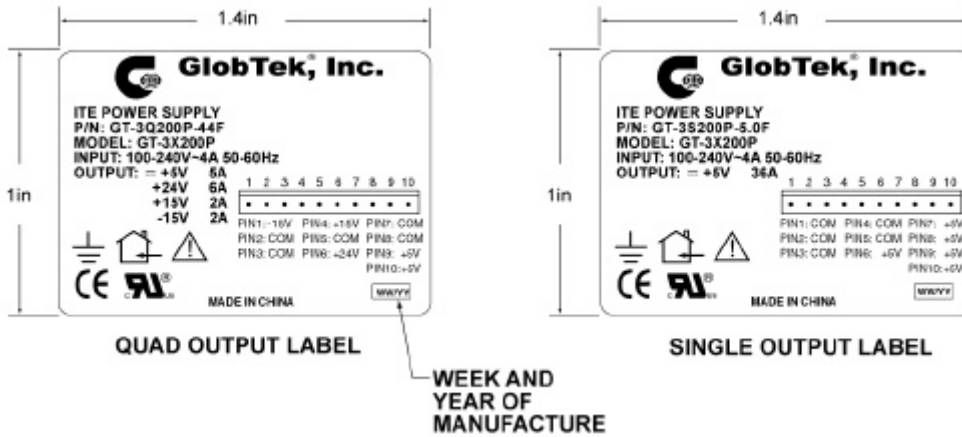
5. LABEL:

MATERIAL: .002(0.005) thick flat thermal transfer, imprintable, matte metalized Mylor with black nomenclature.

Manufacturer: Graphtex, Inc., material I.D. No. GPN201483. UL file no.MH10966. UL material category ML1842. Optional label material can be substituted providing material is UL listed and complies with applicable safety requirements.

6. LABEL PLACEMENT:

Label is placed on component TI facing outwards.



7. INDIVIDUAL PACKAGING:

Each power supply shall be contained in a sealed polyester bubble wrap bag, two (2) units are packed per packing box, each in it's own bubble wrap bag.

8. INDIVIDUAL PACKING BOX:

Material: Corrugated fiberboard, F-flute .08 (2.0) thick, double wall construction.

External Finish: White, coated with gloss finish (aqueous or varnish). Style: Tuck sides with locking tabs on both sides of box. No Printing on the outside of box.

