



ISO 9001
REGISTERED



**(3X5)" Open Frame and PCB Mount, Universal Input,
30-65 Watt Single Output Family, ITE and Medical Class I & II**



1. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 90 VAC TO 264 VAC
 INPUT CURRENT: <2.0 A RMS AT 90 VAC INPUT
 INPUT FREQUENCY: 47 HZ - 63 HZ
 OUTPUT VOLTAGE / CURRENT:

CLASS I MODELS, PROTECTIVE GROUND
 CLASS II MODELS, DOUBLE INSULATED

MODEL:

OUTPUT RATING:

GT(- or M)2065(P or -)2703-F(B)(W)	+3.3 V DC @ 0 - 8.0 A
GT(- or M)2065(P or -)4005-X.X-F(B)(W)	+5.0 V DC @ 0 - 8.0 A
GT(- or M)2065(P or -)5509-X.X-F(B)(W)	+9.0 V DC @ 0 - 6.1 A
GT(- or M)2065(P or -)6512-X.X-F(B)(W)	+12.0 V DC @ 0 - 5.4 A
GT(- or M)2065(P or -)6515-X.X-F(B)(W)	+15.0 V DC @ 0 - 4.3 A
GT(- or M)2065(P or -)6518-X.X-F(B)(W)	+18.0 V DC @ 0 - 3.6 A
GT(- or M)2065(P or -)6524-X.X-F(B)(W)	+24.0 V DC @ 0 - 2.7 A
GT(- or M)2065(P or -)6548-X.X-F(B)(W)	+48.0 V DC @ 0 - 1.35 A

MODEL NUMBER CODE:

GT-2: INTERNAL CODE;

-: ITE MODEL, UL 60950 OR M: MEDICAL MODEL, UL 2601-1

065: FAMILY DESIGNATION, 65W

(P): POWER FACTOR CORRECTION, OPTIONAL

2703 TO 6548: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

NOTES:

- EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
- SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
- X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.

OUTPUT CURRENT : NO LOAD TO FULL LOAD,NO MINIMUM LOAD REQUIRED

OUTPUT POWER (RATED): 65 WATTS MAX

OUTPUT RIPPLE (PEAK TO PEAK): ≤ 1% TYP.

OUTPUT REGULATION (LINE/LOAD): ± 2 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

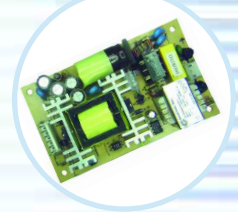
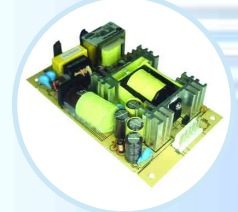
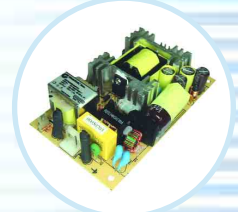
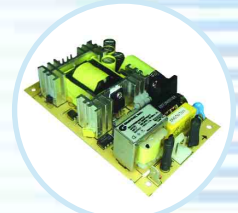
LINE REGULATION: ± 0.5 % MAX AT FULL LOAD

ADJUSTABILITY (OPTION): +10, -5% OUTPUT VOLTAGE

OUTPUT INDICATOR: GREEN LED, OUTPUT PRESENT

REMOTE SENSING (OPTION): PROVIDES REGULATION WITHIN ± 1% OF NOMINAL VOLTAGE OF MAIN OUTPUT AT LOAD LEVEL. FOR 3.3V SINGLE OUTPUT, REMOTE IS REQUIRED.

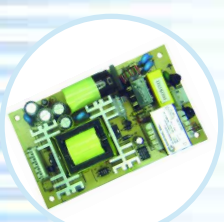
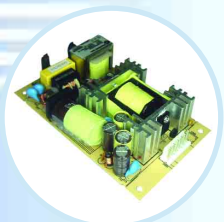
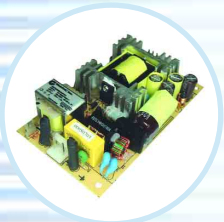
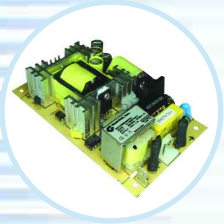
TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD





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TURN-ON DELAY:	1 SEC MAX
HOLD-UP TIME:	16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD
INRUSH CURRENT:	20 A MAX AT COLD START FOR N.A. (40A FOR EURO)
EFFICIENCY:	75 % TYPICAL
POWER FACTOR:	0.8 TYP., CURRENT SHAPER PFC FRONT STAGE
SWITCHING FREQUENCY:	100 KHZ TYPICAL
OVER-VOLTAGE PROTECTION:	VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
OVER-CURRENT / SHORT CIRCUIT:	HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 I _o
OTHER PROTECTION:	INPUT FUSING
SAFETY APPROVALS:	
ITE MODELS: (PENDING)	UR TO UL 60950, C-UR TO 22.2 # 950, TUV TO EN 60950, CE CLASS I & II
MEDICAL MODELS: (PENDING)	UR TO UL 2601, C-UR TO 22.2 # 601, TUV TO EN 60601, CE CLASS I & II
DIELECTRIC WITHSTAND VOLTAGE:	4000VAC PRIMARY-SECONDARY;1500 VAC PRIMARY- GROUND
LEAKAGE CURRENT:	≤ 0.1 mA
LINE SURGE:	EN 61000-4-5 LEVEL 4
EMI:	COMPLIES WITH EN55022 AND 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 EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.
MTBF:	GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE
OPERATING TEMPERATURE:	0°C TO 40° C
STORAGE TEMPERATURE:	-40°C TO 80° C
HUMIDITY:	0% TO 90% RELATIVE HUMIDITY

MECHANICAL: INCH (MM)

2. CONFIGURATION:

OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW. OPTION: PCB MOUNT, WITH IN / OUT CONNECTORS HEADERS PINS ON PCB SOLDER SIDE.



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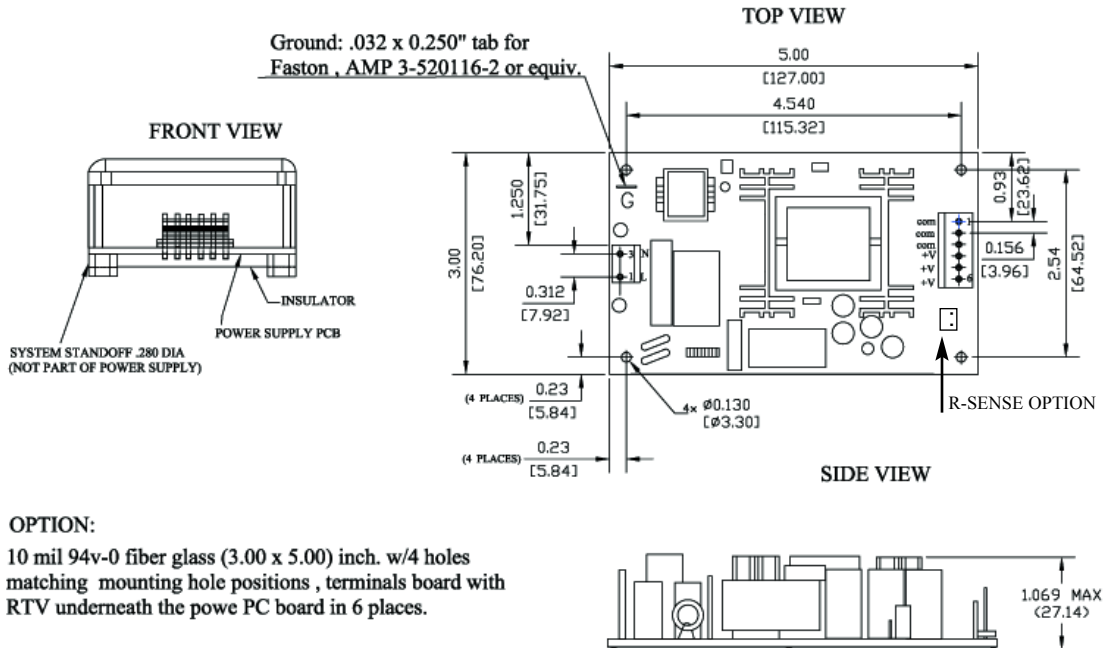
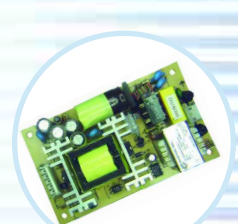
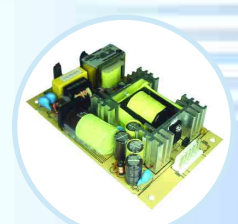
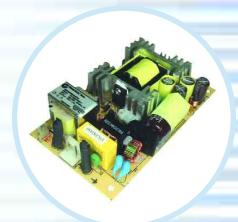
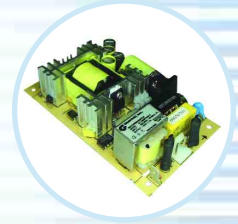
(3X5)" Open Frame and PCB Mount, Universal Input, 30-65 Watt Single Output Family, ITE and Medical Class I & II



3. INPUT CONNECTOR:

3.1. OPEN FRAME STRAIGHT SQUARE PIN LOCKING HEADERS, WITH .312(7.92) BETWEEN CONDUCTORS, .045 (1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-65-2038 (3 CIRCUITS, WITH 1 PIN REMOVED). HEADER MATES WITH MOLEX NO. 2139 CONNECTOR OR EQUIVALENTS.

3.2. PCB MOUNT: STRAIGHT SQUARE PIN NON-LOCKING HEADER, WITH .312(7.92) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-67-4031 (3 CIRCUITS, WITH 1 PIN REMOVED), SYSTEM BOARD SOLDERED.



OPTION:

10 mil 94v-0 fiber glass (3.00 x 5.00) inch. w/4 holes matching mounting hole positions , terminals board with RTV underneath the powe PC board in 6 places.

4. OUTPUT CONNECTOR:

4.1. OPEN FRAME: 6 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 26-48-1065 UL 94V-0 RATED NYLON HOUSING; .156(3.96) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2139 CONNECTORS OR EQUIVALENT.

4.2. PCB MOUNT: 6 PINS STRAIGHT SQUARE NON-LOCKING HEADER WITH .156(3.96) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN MATED UL 94V-0 RATED NYLON HOUSING, MOLEX 09-67-4061, SYSTEM BOARD SOLDERED.

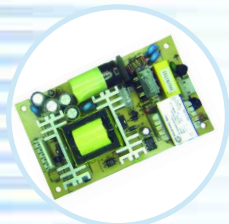
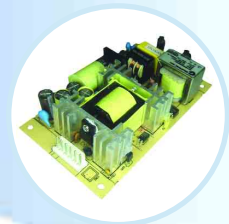
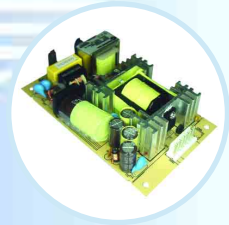
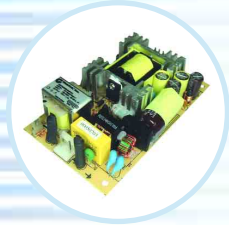
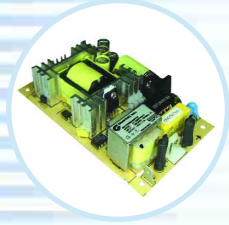
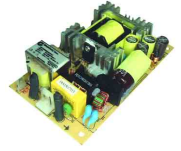
4.3. REMOTE SENSE (OPTION): 2 PINS STRAIGHT HEADER WITH LOCKING RAMP, WITH UL 94V-0 RATED NYLON BASE, .100(2.54) PITCH BETWEEN CONDUCTORS, .025 (0.64) SQUARE PINS, TIN PLATED MOLEX: 22-18-0020, HEADER MATES WITH MOLEX NO: 10-11-2023 CONNECTOR OR EQUIVALENT.



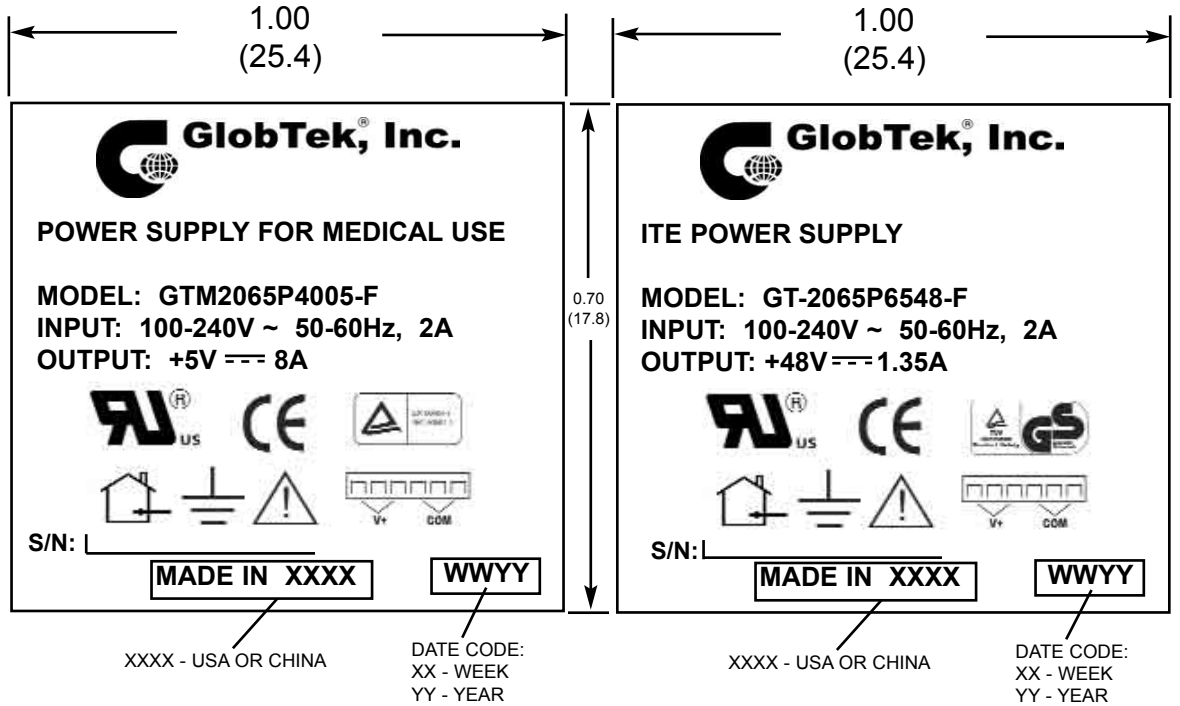
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Switching Power Supplies

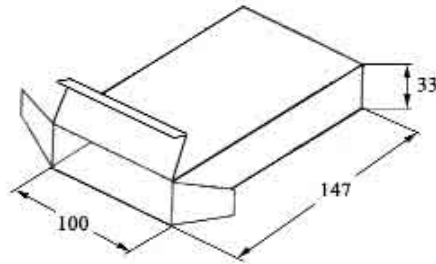
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5. LABEL:



6. INDIVIDUAL PACKING :



A = 102 mm
B = 147 mm
C = 42 mm