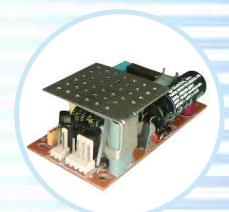
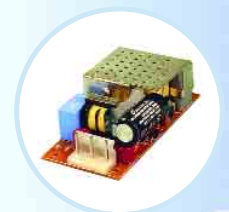
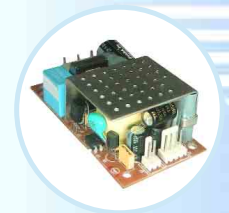
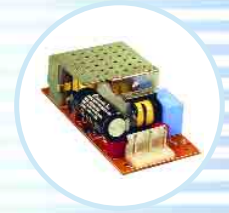




ISO 9001
REGISTERED



**SWITCHER , 10-20 WATT, SINGLE OUTPUT, FAMILY (1.7x3.3)''
OPEN FRAME & PCB MOUNT, UNIVERSAL INPUT, ITE AND
MEDICAL, CLASS I & II**

1. NOTES:

DIMENSIONS ARE IN INCH (MM) UNLESS SPECIFIED OTHERWISE.



FOR CLASS I MODELS WITH 'PE' CONNECTED, THE OUTPUT IS NOT FLOATING. OPTIONAL MODELS WITH ISOLATED GROUND HAVE FLOATING OUTPUT. THIS POWER SUPPLY MAY NOT BE SUITABLE FOR CERTAIN MEDICAL EQUIPMENT, PLEASE REFER TO IEC601-1.

FOR CLASS I MEDICAL UNITS USED IN THE US & CANADA, A UL/CSA APPROVED HOSPITAL GRADE CORD OF TYPE SV OR BETTER/#18 AWG OR BIGGER SHALL BE USED (I.E. GLOBTEK P/N: 1191068F0701). THIS IS REQUIRED TO COMPLY WITH UL 2601 & ENSURE PROPER GROUNDING RELIABILITY.

2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 90 VAC TO 264 VAC
INPUT CURRENT: <0.5 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)21096-1003-F(B)(W)	+3.3 V DC @ 0 - 3.0 A
GT(- OR M)21096-1505-X.X-F(B)(W)	+5.0 V DC @ 0 - 3.0 A
GT(- OR M)21096-1506-X.X-F(B)(W)	+6.0 V DC @ 0 - 2.5 A
GT(- OR M)21096-1509-X.X-F(B)(W)	+9.0 V DC @ 0 - 1.7 A
GT(- OR M)21096-1512-X.X-F(B)(W)	+12.0 V DC @ 0 - 1.25 A
GT(- OR M)21096-1815-X.X-F(B)(W)	+15.0 V DC @ 0 - 1.2 A
GT(- OR M)21096-1818-X.X-F(B)(W)	+18.0 V DC @ 0 - 1.0 A
GT(- OR M)21096-1824-X.X-F(B)(W)	+24.0 V DC @ 0 - 0.75 A
*GT(- OR M)21096-2048-X.X-F(B)(W)	+48.0 V DC @ 0 - 0.4 A

MODEL NUMBER CODE:

GT-2: INTERNAL CODE;

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

1096: FAMILY DESIGNATION, 10-20W OPEN FRAME

0903 TO 2048: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

-: UNITS ENDING WITH "W" ARE CLASS II UNITS, UNITS ENDING WITHOUT "W" ARE CLASS I UNITS.

NOTES:

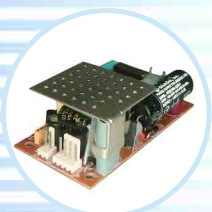
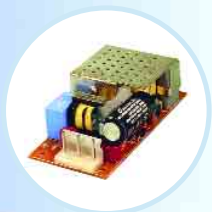
1. EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD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

*FROM 24.1 V TO 48 V, AVAILABLE ONLY WITH TUV AND CB APPROVALS.



**ISO 9001
REGISTERED**

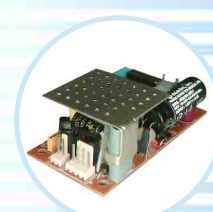
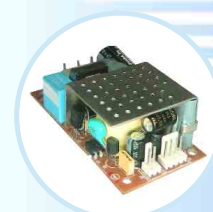
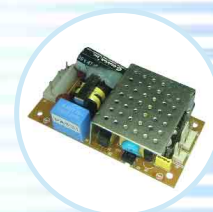
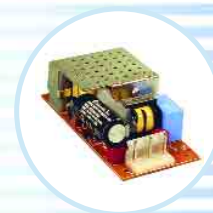
**SWITCHER , 10-20 WATT, SINGLE OUTPUT, FAMILY (1.7x3.3)"
OPEN FRAME & PCB MOUNT, UNIVERSAL INPUT, ITE AND
MEDICAL, CLASS I & II**



OUTPUT CURRENT :	NO LOAD TO FULL LOAD,NO MINIMUM LOAD REQUIRED
OUTPUT POWER (RATED):	20 WATTS MAX
OUTPUT RIPPLE (PEAK TO PEAK):	< LESSOR OF 1% OR 100mV
OUTPUT REGULATION (LINE/LOAD):	± 2 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
LINE REGULATION:	± 0.5 % MAX AT FULL LOAD
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
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
SWITCHING FREQUENCY:	100 KHZ TYPICAL
OVER-VOLTAGE PROTECTION:	VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
OVER-CURRENT / SHORT CIRCUIT:	CONSTANT CURRENT AT 110% TO 130% OF NOMINAL LOAD MOMENTARY OUTPUT SHORT CIRCUIT PROTECTED. INPUT FUSING
OTHER PROTECTION:	
SAFETY APPROVALS:	UR TO UL 60950, C-UR TO 22.2 # 950, TUV TO EN 60950, CE CLASS I & II
ITE MODELS:	UR TO UL 2601, C-UR TO 22.2 # 601, TUV TO EN 60601, CE CLASS I & II
MEDICAL MODELS:	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



ISO 9001
REGISTERED

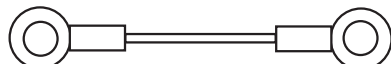


**SWITCHER , 10-20 WATT, SINGLE OUTPUT, FAMILY (1.7x3.3)"
OPEN FRAME & PCB MOUNT, UNIVERSAL INPUT, ITE AND
MEDICAL, CLASS I & II**



**IMPORTANT INSTALLATION NOTE FOR PROPER INSULATION AND GROUNDING RELIABILITY:
OPTION:**

1.) USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR ALL MOUNTING HOLES AND ADD JUMPER WIRE OPTION SHOWN BELOW FOR FUNCTIONAL EARTH CONNECTION BETWEEN HOLES 4 AND 3.



RING TERMINAL, AMP P/N: 8-34142-5 AWG 18 STRANDED WIRE, GREEN, 100 mm LENGTH

3.) USE METALLIC 4-40 SCREWS AND METALLIC STAND-OFF FOR HOLES 3 AND 4 AND USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR HOLES 1 AND 2.

MECHANICAL: INCH (MM)

3. CONFIGURATION:

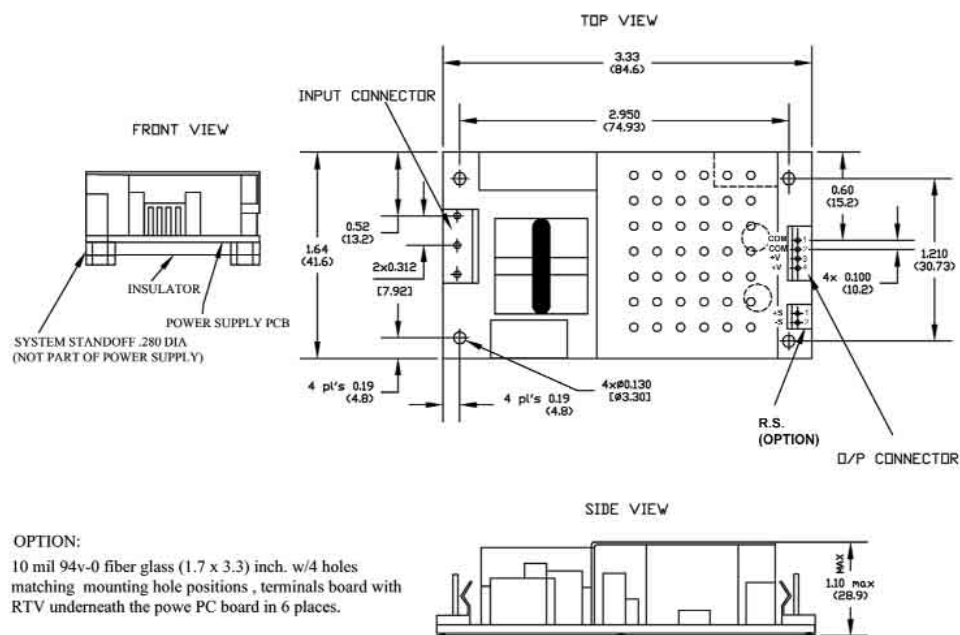
OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.

OPTION: PCB MOUNT, WITH IN / OUT CONNECTORS HEADERS PINS ON PCB SOLDER SIDE.

4. INPUT CONNECTOR:

4.1. 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.

4.2. 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.



5. OUTPUT CONNECTOR:

5.1. OPEN FRAME: 4 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 22-28-0040 UL 94V-0 RATED NYLON HOUSING; .100(2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2695 CONNECTORS OR EQUIVALENT.

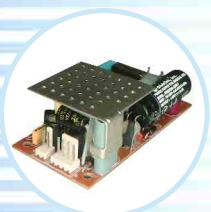
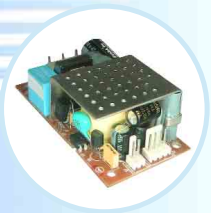
5.2. PCB MOUNT: 4 PINS STRAIGHT SQUARE NON-LOCKING HEADER WITH .100(2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN MATED UL 94V-0 RATED NYLON HOUSING, MOLEX 22-03-2041, SYSTEM BOARD SOLDERED.

5.3. 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- 28-0020, HEADER MATES WITH MOLEX # 2695 CONNECTOR OR EQUIVALENT.

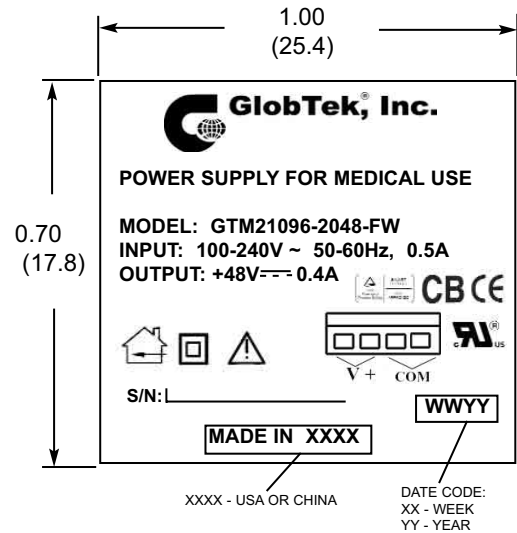
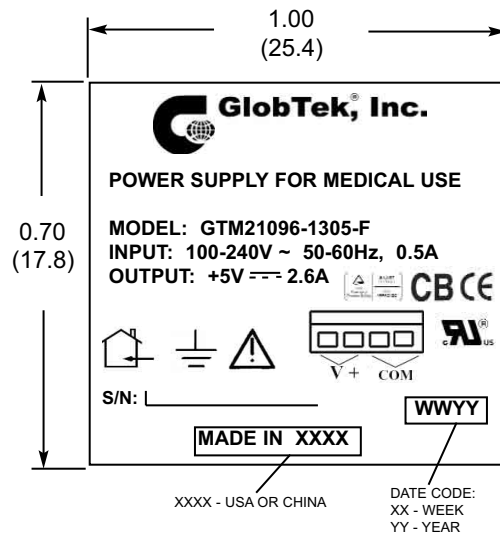


ISO 9001
REGISTERED

**SWITCHER , 10-20 WATT, SINGLE OUTPUT, FAMILY (1.7x3.3)"
OPEN FRAME & PCB MOUNT, UNIVERSAL INPUT, ITE AND
MEDICAL, CLASS I & II**

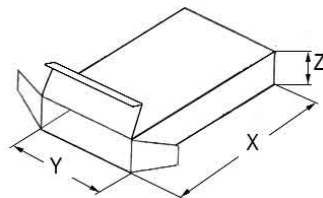


6. LABEL:



CAUTION: FOR INDOOR USE ONLY
ATTENTION: POUR UTILISATION A L'ITERIEUR SEULEMENT

7. INDIVIDUAL PACKING :



X = 90 mm
Y = 45 mm
Z = 30 mm