



**SWITCHING POWER SUPPLY, 22 WATT, 5.5 V DC @ 4 A DESKTOP,  
UNIVERSAL INPUT, OR 105 TO 125 VDC INPUT, ITE, CLASS I**

#### 1. NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



#### REMOTE SENSE OPTION IMPLEMENTATION:

CHANGES:

1. REMOVE JUMPER "J6".
2. PLACE A JUMPER FROM "U3" ANODE TO THE S- PAD AT THE PCB BOARD.
3. CHANGE "R46" FROM "OR 0805" TO "5.1R 0805" RESISTOR.
4. CHANGE "R35" FROM "3.09K 0805" TO "5.1R 0805" RESISTOR.
5. CHANGE "R45" FROM "OR 0805" TO "2.21K 0805" RESISTOR.
6. CONNECT THE + SENSE WIRE TO S+ PAD AND -SENSE WIRE TO S-PAD.

#### 2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE:	90 VAC TO 264 VAC OR 105 TO 125 VDC
INPUT CURRENT:	< 1.6 A RMS AT 90 VAC INPUT OR <0.5A AT 105 VDC INPUT
FREQUENCY:	47 HZ - 63 HZ OR DC
OUTPUT VOLTAGE / CURRENT:	+ 5.5 VDC AT 0 - 4 A WITH AC INPUT OR +5.5 VDC AT 0 - 2.75A WITH DC INPUT
OUTPUT CURRENT :	NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED
OUTPUT POWER (RATED):	22 WATTS MAX WITH AC INPUT OR 15.2 W MAX WITH DC INPUT
OUTPUT RIPPLE (PEAK TO PEAK):	1% TYPICAL
OUTPUT REGULATION (LINE/LOAD):	± 2 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
LINE REGULATION:	± 0.5 % MAX AT FULL LOAD
TURN ON/ TURN OFF OVERSHOOT:	4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD
TURN-ON DELAY:	3 SEC MAX ( 15 SEC. MAXIMUM FOR NOMINAL DC INPUT)
HOLD-UP TIME:	10 mSEC MIN AT NOMINAL INPUT AND FULL LOAD
INRUSH CURRENT:	45 A MAX AT COLD START
EFFICIENCY:	70 % TYPICAL AT NOMINAL INPUT AND FULL LOAD.
SWITCHING FREQUENCY:	100 KHZ TYPICAL
OVER-VOLTAGE PROTECTION:	VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE (BOTH, AC AND DC INPUT)
OVER-CURRENT / SHORT CIRCUIT:	HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 I <sub>o</sub> (BOTH, AC AND DC INPUT)
OTHER PROTECTION:	INPUT FUSING
SAFETY APPROVALS :	UL 60950, CUL TO 22.2 # 234, 950, TUV, GS AND cTUVus TO EN 60950
DIELECTRIC WITHSTAND VOLTAGE:	4242VDC PRIMARY-SECONDARY; 2121 VDC PRIMARY- GROUND



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LEAKAGE CURRENT:

<3.5 mA AT 264 VAC 50 Hz

LINE SURGE:

EN 61000-4-5 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 EN6100-4-2,  
EN61000-3-2, EN61000-3-3, 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 CALCULATED, STRESS ANALYSIS  
GROUND FIX ENVIRONMENT

OPERATING TEMPERATURE:

0° TO 50° C FOR AC INPUT OR 0° TO 50°C FOR DC INPUT

STORAGE TEMPERATURE:

-40° TO 80° C

HUMIDITY:

0 TO 90% RELATIVE HUMIDITY

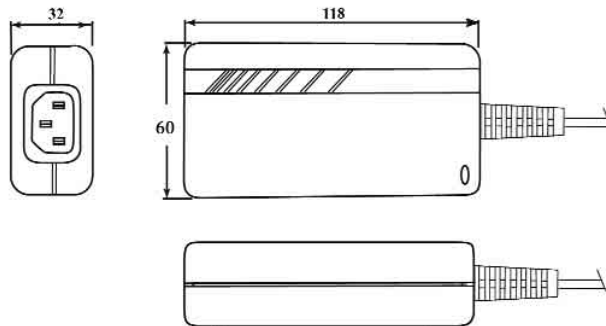


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### 3. ENCLOSURE:

UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK  
LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, NON- VENTED, COLOR BLACK  
SIZE: 119 x 60 x 32 ± 1mm



### 4. INPUT CONNECTOR:

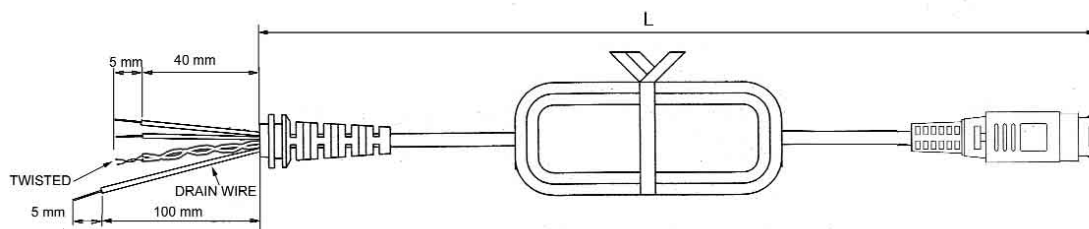
CONFIGURATION: CLASS 1 MODEL IEC320 / C14, AC POWER RECEPTACLE WITH 3 MALE PRONGS

### 5. OUTPUT CORD:

4 CONDUCTOR + BRAIDED SHIELD, 20 AWG STRANDED WIRES, ROUND, UL 2464 CORD TYPE, COLOR BLACK ,  
LENGTH OF CORD: 2440 ± 50mm.  
CORD IS MEASURED FROM THE HOUSING TO THE END OF OVERMOLD OF THE CONNECTOR.  
CABLE IS TO BE MARKED WITH WIRE GAUGE, AND ALL APPLICABLE RATING AND SAFETY APPROVALS.  
TWO OF FOUR CONDUCTORS SHOULD BE TWISTED AT TWO TWIST PER INCH. THE TWISTED PAIR WILL BE USE FOR REMOTE SENSING.

### 6. OUTPUT CONNECTOR:

SIGNATRON MDP-1402(2MP-1402), KYCON KKP-4P OR EQUIVALENT



NOTE: 3 LAYERS OF SHRINK TUBING IN DRAIN WIRE

FRONT / MALE PLUG

PIN 1: + V  
PIN 2: - SENSE  
PIN 3: + SENSE  
PIN 4: COM



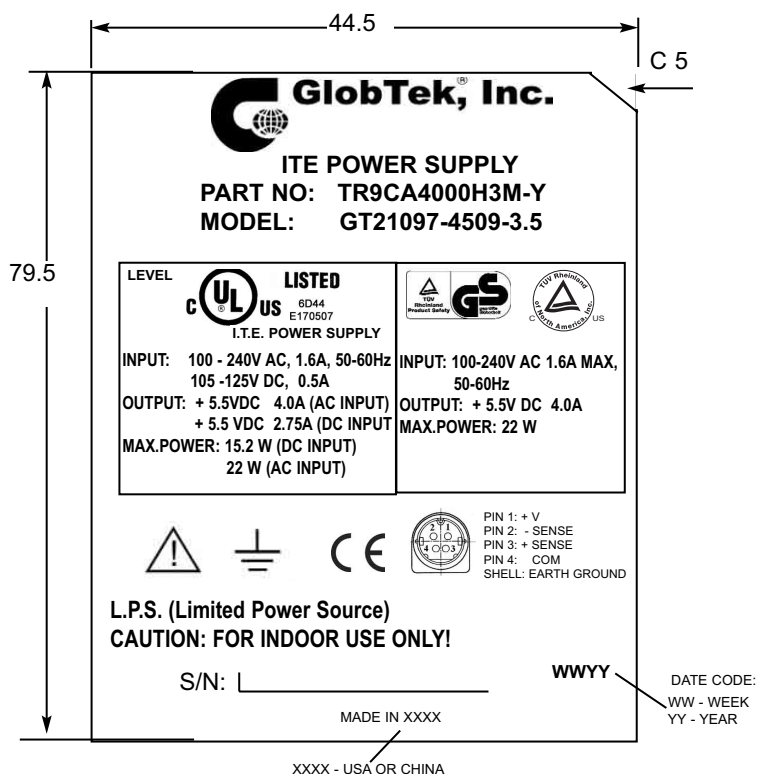
SHELL: EARTH GROUND

\* EARTH GROUND ISOLATED FROM DC COMMON THROUGH  
10 nF CAPACITOR

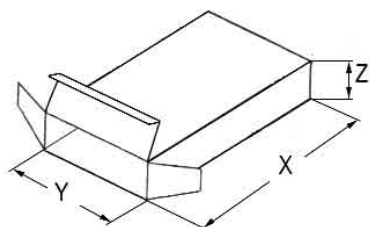
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**7. LABEL:**



**8. INDIVIDUAL PACKING BOX:**



A = 147 mm  
B = 100 mm  
C = 33 mm