



ISO 9001
REGISTERED



**SWITCHING POWER SUPPLY, 48-60 WATT FAMILY
DESKTOP, UNIVERSAL INPUT, MEDICAL**



FOR INDOOR USE ONLY

1. DESKTOP POWER SUPPLIES FAMILIES: GT(M)500148/500160 GENERAL DESCRIPTION:

THE SUBJECT MODELS ARE A SERIES OF AC/DC LOW-VOLTAGE SINGLE-OUTPUT, CONSTANT-VOLTAGE CURRENT-LIMITED SWITCHING POWER SUPPLIES(DESKTOP), UNIVERSAL INPUT/IEC 320 INPUT RECEPTACLE FOR CONNECTION OF POWER SUPPLY CORD SET, INTENDED FOR USE WITH/IN INFORMATION TECHNOLOGY EQUIPMENT AND MEDICAL ELECTRICAL EQUIPMENT, PATIENT TYPE B EQUIPMENT. THE MODELS HAVE EARTH GROUND CONNECTION AND ARE CONSIDERED CLASS "I" EQUIPMENT. THE MODELS ARE SIMILAR IN CONSTRUCTION. ALL MODELS USE THE SAME PRINTED WIRING BOARD LAYOUT AND MOST MODELS USE SAME TRANSFORMER; E.G.: VARIATION IN TURNS RATIO FOR 500160 MODEL. DIFFERENCES IN OUTPUTS ARE OBTAINED THROUGH COMPONENT VALUE CHANGES, AS SHOWN IN THE FAMILY SCHEMATIC.

SINGLE OUTPUT UNITS ARE AVAILABLE WITH OUTPUT VOLTAGE OF 12V DC TO 30V DC IN 0.1V INCREMENT. MODEL NUMBER MAY BE FOLLOWED - X.X FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL, WHERE "X" IS AN INTEGER FROM 1 TO 0 (SUBTRACTING X.X FROM STANDARD RATED OUTPUT VOLTAGE WILL REFLECT MODIFIED OUTPUT VOLTAGE RATING). EACH OUTPUT CURRENT CAN VARY UP TO ITS MAXIMUM RATED CURRENT PROVIDED THE RATED OUTPUT POWER IS NOT EXCEEDED; OUTPUT WATTS RATING FOR INFORMATIONAL PURPOSES ONLY; MAY OR MAY NOT BE PROVIDED ON LABEL.

NOTE. (M) IS: -ITE MODEL OR M: MEDICAL MODEL

ELECTRICAL RATING MODEL:

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT
GT-500148-5	5.0 VDC	6.0 A
GT-500148-7.5	7.5 VDC	5.0 A
GT-500148-12	12 VDC	4.0 A
GT-500148-15-2.0	13 VDC	3.7 A
GT-500148-15-1.0	14 VDC	3.4 A
GT-500148-15	15 VDC	3.3 A
GT-500148-24-8.0	16 VDC	3.0 A
GT-500148-24-7.0	17 VDC	2.8 A
GT-500148-24-6.0	18 VDC	2.6 A
GT-500148-24-5.0	19 VDC	2.5 A
GT-500148-24-4.0	20 VDC	2.4 A
GT-500148-24-3.0	21 VDC	2.3 A
GT-500148-24-2.0	22 VDC	2.2 A
GT-500148-24-1.0	23 VDC	2.1 A
GT-500148-24	24 VDC	2.1 A
GT-500160-30-5.0	25 VDC	2.4 A
GT-500148-30-4.0	26 VDC	2.3 A
GT-500148-30-3.0	27 VDC	2.2 A
GT-500148-30-2.0	28 VDC	2.1 A
GT-500148-30-1.0	29 VDC	2.0 A
GT-500148-30	30 VDC	2.0 A






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2. NOTES:
DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

3. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE:	90 VAC TO 264 VAC
INPUT CURRENT:	≤ 1.6 A RMS AT 90 VAC INPUT
INPUT FREQUENCY:	47 HZ - 63 HZ
OUTPUT CURRENT :	NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED
OUTPUT POWER (RATED):	60 WATTS MAX
OUTPUT RIPPLE (PEAK TO PEAK):	1% TYP.
OUTPUT REGULATION (LINE/LOAD):	± 5 % 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:	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:	HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO
OTHER PROTECTION:	INPUT FUSING
SAFETY APPROVALS :	
ITE MODELS:	VDE TO EN 60950, UL/C - UL (PENDING)
MEDICAL MODELS:	UL 2601, CUL TO 22.2 # 601, VDE TO EN60601-1, NEMKO (PATIENT TYPE B) TO EN60601-1 CE, CLASS I
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, 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, 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 70 C DERATE LINEARLY FROM 100% AT 40°C TO 50% AT 70°C
STORAGE TEMPERATURE:	-40°C TO 80° C
HUMIDITY:	0% TO 90% RELATIVE HUMIDITY





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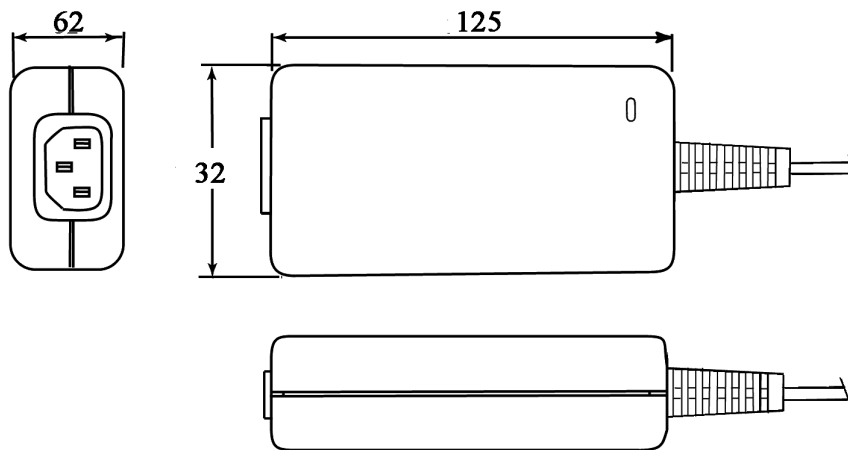
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4. ENCLOSURE

UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK
LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK
SIZE: 125 X 62 X 32 + 1



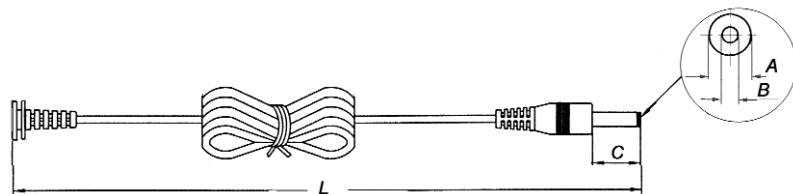
5. INDICATOR: GREEN LED, OUTPUT PRESENT

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

7. OUTPUT CORD: STANDARD, 2 CONDUCTOR, 18 AWG STRANDED WIRE, FLAT UL VW-1 RATED SPT-1 CORD TYPE, COLOR BLACK, LENGTH OF CORD: 1830 + 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.

8. OUTPUT CONNECTOR:

STANDARD, STRAIGHT FEMALE BARREL IS 5.5 x 2.5 x 11 mm WITH CENTER POSITIVE:



A = 5.5 mm
B = 2.5 mm
C = 11 mm

L = 1830 ± 50

NOTE: FOR OTHER OUTPUT CORD ARRANGEMENT SEE CATALOG ACCESSORIES:
OUTPUT PLUG/CORD OPTIONS






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9. LABEL:



GlobTek, Inc.

POWER SUPPLY FOR MEDICAL USE

P/N: TR9CE4000LCP-R-MED
 MODEL: GT-500148-12
 INPUT: 100-240 VAC 50-60 Hz 1.6A
 OUTPUT: 12VDC 4.0A
 CAUTION: FOR INDOOR USE ONLY!




S /N: _____

MADE IN XXXX

WWYY

XXXX - USA OR CHINA


DATE CODE
WW - WEEK
YY - YEAR



GlobTek, Inc.

POWER SUPPLY FOR MEDICAL USE

P/N: TR9CR2000LCP-R-MED
 MODEL: GT-500148-30-2.0
 INPUT: 100-240 VAC 50-60 Hz 1.6A
 OUTPUT: 28VDC 2.0A
 CAUTION: FOR INDOOR USE ONLY!



S /N: _____

MADE IN XXXX

WWYY

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10. INDIVIDUAL PACKING BOX:

