

ISO 9001:2000  
REGISTERED**0-65 Watts, 3"X5" Open Frame, Universal Input,  
Single Output Family, Medical****ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:**

UNIVERSAL INPUT FROM 100VAC TO 240VAC

**INPUT CURRENT:**

1.5A@65W MAXIMUM AT 100VAC FULL LOAD

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

65 WATTS MAX FREE AIR CONVECTION

**OUTPUT RIPPLE (PEAK TO PEAK):**

LESS THAN 1% OF OUTPUT VOLTAGE

**OUTPUT LOAD REGULATION:**+/-2% MEASURED AT THE OUTPUT CONNECTOR END  
OF THE PSU**LINE REGULATION:**+ / - 0.5% OF NOMINAL VOLTAGE MEASURED AT O/P  
CONNECTOR**TURN ON/ TURN OFF OVERSHOOT:**5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25%  
TO 50% STEP LOAD**TURN-ON DELAY:**

3 SEC TYPICAL

**HOLD-UP TIME:**

12mS MINIMUM AT 65W AT 120VAC INPUT

**INRUSH CURRENT:**

20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

**EFFICIENCY:**

80% TYPICAL AT NOMINAL INPUT AND FULL LOAD\*

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**OUTPUT VOLTAGE LIMITED BY CROWBAR METHOD,  
HICCUP MODE**OVER-CURRENT / SHORT CIRCUIT:**HICCUP MODE, UNIT WILL RECOVER ONCE FAULT IS  
REMOVED**OTHER PROTECTION:**

INPUT LINE AND NEUTRAL FUSING

**SAFETY APPROVALS:**DEM0950, UL/CSA60950 3ED., EN60601, UL60601 A1/A2, CB,  
DEMKO, CE TO EN61000-3-2, EN610003-3, EN61000-4-2,  
EN61000-4-3, EN61000-4-4 EN61000-4-5, EN61000-4-6,  
EN61000-4-11, EMI TO EN55011 MEDICAL AND EN55022 ITE  
CLASS B, TESTED WITH RESISTIVE LOAD**DIELECTRIC WITHSTAND VOLTAGE:**5656VDC (4000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) SECONDARY TO GROUND**LEAKAGE CURRENT:**

LESS THAN 300uA AT 240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 2

**EMI:**COMPLIES WITH EN5011 CLASS B AND FCC PART 15 CLASS  
B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED  
AND RADIATED EMI.**CE MARK:**TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3,  
EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11.**MTBF (BELCORE METHOD I, CASE 1):**

1.1 MILLION HRS, 40C , GROUND BENIGN

**OPERATING TEMPERATURE:**

-20°C TO 50°C AMBIENT TEMPERATURE

**STORAGE TEMPERATURE:**

-40° C TO 80° C

**HUMIDITY:**

OPERATING, NON-CONDENSING; 5% TO 90% RH

**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN ITS  
DESIGNATED RANGE, AS LONG AS 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.
4. TYPICAL EFFICIENCY FOR 7.5V AND BELOW IS 70%

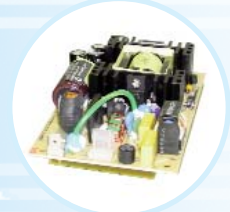
SEE APPENDIX "G" FOR ELECTRICAL  
PERFORMANCE CURVES**OPTIONS:**

1. PASSIVE PFC VERSION
2. CLASS II VERSION
3. EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
4. OPEN FRAME WITH CONFIGURABLE INPUT AND  
OUTPUT WIRING HARNESS.
5. L-BRACKET WITH PERFORATED COVER
6. REMOTE SENSING

**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	65W OUTPUT CURRENT (A) FREE AIR CONVECTION	RATED OUTPUT POWER (W)
<b>SINGLE OUTPUT SECTION</b>				
GTM2065(P)333.3-X.X	F(W) OR EXXX(W) OR HXXX(W)	+3.3	10.00	33
GTM2065(P)4005-X.X	F(W) OR EXXX(W) OR HXXX(W)	+5.0	8.00	40
GTM2065(P)6575.5-X.X	F(W) OR EXXX(W) OR HXXX(W)	+7.5	8.67	65
GTM2065(P)6509-X.X	F(W) OR EXXX(W) OR HXXX(W)	+9.0	7.22	65
GTM2065(P)6512-X.X	F(W) OR EXXX(W) OR HXXX(W)	+12.0	5.42	65
GTM2065(P)6515-X.X	F(W) OR EXXX(W) OR HXXX(W)	+15.0	3.61	65
GTM2065(P)6518-X.X	F(W) OR EXXX(W) OR HXXX(W)	+18.0	4.44	65
GTM2065(P)6524-X.X	F(W) OR EXXX(W) OR HXXX(W)	+24.0	2.71	65
GTM2065(P)6536-X.X	F(W) OR EXXX(W) OR HXXX(W)	+36.0	1.80	65
GTM2065(P)6548-X.X	F(W) OR EXXX(W) OR HXXX(W)	+48.0	1.36	65

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**0-65 Watts, 3"X5" Open Frame, Universal Input,  
Single Output Family, Medical**



**MODEL NUMBER DESCRIPTION**

**GT(M)2065(P)553.3-X.X TO 8048-X.X**

**GT:** GLOBTEK SERIES

**M:** MEDICAL GRADE, REPLACE "M" WITH "-" (DASH) FOR I.T.E. GRADE

2065: FAMILY DESIGNATOR

**P:** PASSIVE PFC VERSION; REPLACE "P" WITH "-" FOR NON-PFC VERSION

553.3 TO 8048: 55W 3.3V TO 80W 48V OUTPUT POWER OUTPUT VOLTAGE

**XX:** USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE

**F(W) OR F(W)A**

**F:** OPEN FRAME VERSION

**W:** SAFETY CLASS II UNITS (NO "W" MEANS SAFETY CLASS I)

**A:** INDICATES 10CFM AIRFLOW REQUIREMENT

**E)XXX(W) OR (E)XXX(W)A**

**E:** EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE BOARD (3X5)

**XXX:** DENOTES PERFORATED ENCLOSURE OR BASE PLATE SIZE CODE WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM BASE PLATE SIZE IS 50" X 30")

**W:** SAFETY CLASS II UNITS (NO "W" MEANS CLASS I)

**A:** INDICATES 10CFM AIRFLOW REQUIREMENT

**HXXX(W) OR HXXX(W)A**

**H:** INPUT AND/OR OUTPUT WIRE HARNESS OPTION

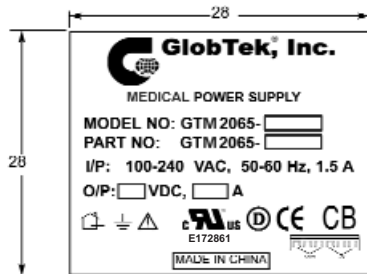
**XXX:** DENOTES INPUT AND /OR OUTPUT WIRE HARNESS LENGTH CODE WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM WIRE HARNESS LENGTH FOR INPUT CONNECTOR IS 100mm AND 200mm FOR OUTPUT CONNECTOR)

**W:** SAFETY CLASS II UNITS (NO "W" MEANS SAFETY CLASS I)

**A:** INDICATES 10CFM AIRFLOW REQUIREMENT

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 4) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 5) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD EXCEED 130C.
- 6) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID STABILITY PROBLEM IN THE POWER SUPPLY.





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INDOOR USE ONLY

CONFIGURATION

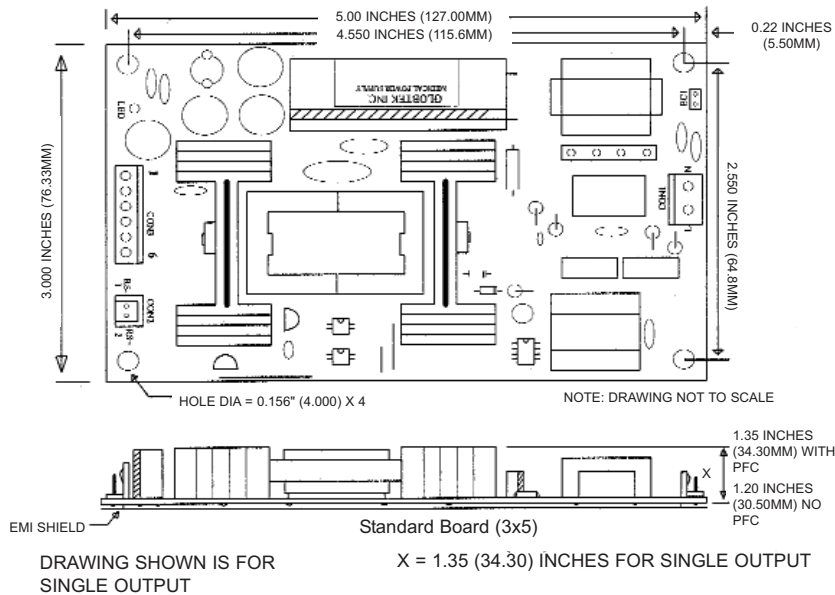
OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW



OPEN FRAME CLASS I:

INPUT CONNECTOR (CON1) MOLEX 3-PIN WITH CENTER PIN REMOVED MOLEX PN: 26-60-4030 MATES W/PN: 09-50-3031, PIN 1: AC NEUTRAL, PIN 3: AC LINE, EC1: EARTH GROUND FOR CLASS I UNITS ONLY

INPUT CONNECTOR (CON1 OPTION) WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3031 WITH AWG 18 STRANDED WIRE, UL1007/UL1015 WITH CONFIGURABLE LENGTH UP TO 100mm. BLACK OR BROWN FOR AC LINE; WHITE OR BLUE FOR AC NEUTRAL; GREEN WITH YELLOW STRIPE FOR EARTH GROUND

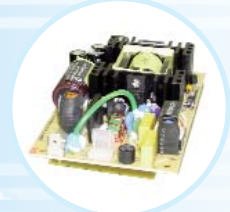
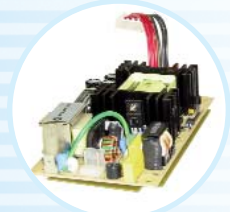
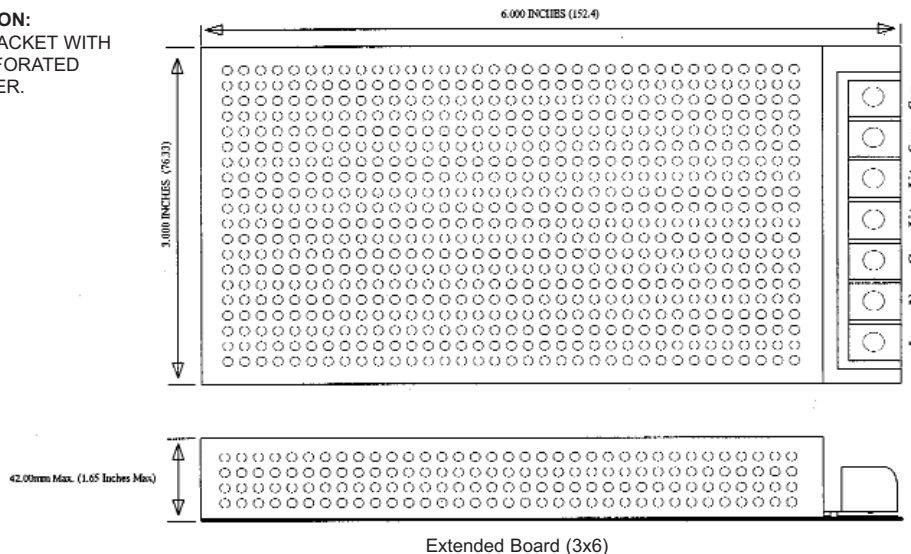


OUTPUT CONNECTOR (CON3): MOLEX 6-PIN FRICTION LOCK HEADER MOLEX PN: 26-60-4060 MATES WITH PN: 09-50-3061, PIN 1,2,3: V+, PIN 4,5,6: COMM, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020 MATES WITH MOLEX PN: 22-01-2021, PIN 1: +SENSE; PIN2: -SENSE

OUTPUT CONNECTOR (CON3) WITH WIRE HARNESS(H): WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3061 WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 200mm. 3C X AWG18 RED FOR V+; 3C X AWG18 BLACK FOR COMMON. CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020 MATES WITH MOLEX PN: 22-01-2021 PIN 1: +SENSE; PIN2: -SENSE

INPUT AND OUTPUT CONNECTOR FOR ENCLOSED (E) VERSION: 7-PIN TERMINAL BLOCK, PIN 2: AC NEUTRAL, PIN 1: AC LINE, PIN 3: EARTH GROUND, PIN 4,5: V+, PIN 6,7: COMMON, CON4 IS OPTIONAL REMOTE SENSE CONNECTOR, MOLEX PN: 22-28-0020 MATES WITH MOLEX PN: 22-01-2021, PIN 1: +SENSE; PIN2: -SENSE

OPTION: L-BRACKET WITH PERFORATED COVER.



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