



ISO 9001:2000
REGISTERED



**0-80 Watts, 3"X5" Open Frame, Universal Input,
Dual and Triple Output Family, ITE**

Part Number Ordering System (See Page ???)
Output Plug/Cord Options (See Page ???)
Medical Versions (See Page ???)



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 REGULATION (LINE/LOAD):
+/-2% MEASURED AT THE OUTPUT CONNECTOR END OF THE PSU

LINE REGULATION:
+ / - 0.5% OF NOMINAL VOLTAGE MEASURED AT O/P CONNECTOR¹

TURN ON/ TURN OFF OVERSHOOT:
5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

TURN-ON DELAY:
3 SEC TYPICAL

HOLD-UP TIME:
10MS MINIMUM AT 80W AT 120VAC INPUT

INRUSH CURRENT:
20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

EFFICIENCY:
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD¹

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 FUSING

SAFETY APPROVALS:
EN60950, 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:
4242VDC (3000VAC) FROM PRIMARY TO SECONDARY
2121VDC (1500VAC) SECONDARY TO GROUND

LEAKAGE CURRENT:
LESS THAN 300µA AT 240VAC

LINE SURGE:
EN 61000-4-5 LEVEL 2

EMI:
COMPLIES WITH EN55022 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.

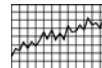
MTBF (BELCORE METHOD I, CASE 1):
1.1 MILLION HRS, 40C , GROUND BENIGN

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



SEE APPENDIX "H" FOR ELECTRICAL PERFORMANCE CURVES

- OPTIONS:**
- PASSIVE PFC VERSION
 - CLASS II VERSION
 - EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
 - OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRING HARNESS.
 - L-BRACKET WITH PERFORATED COVER
 - REMOTE SENSING

OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	DUAL OUTPUT SECTION (PRELIMINARY)	OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
GT-2066(P)330500-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0	10.0/5.0	58
GT-2066(P)051200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0	10.0/2.50	80
GT-2066(P)05N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-12.0	10.0/2.50	80
GT-2066(P)051500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0	10.0/2.0	80
GT-2066(P)05N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-15.0	10.0/2.0	80
GT-2066(P)052400-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0	10.0/1.25	80
GT-2066(P)24N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-5.0	2.92/2.0	80
GT-2066(P)05N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-5.0	14.0/2.0	80
GT-2066(P)12N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+12.0/-12.0	5.66/1.0	80
GT-2066(P)15N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+15.0/-15.0	4.33/1.0	80
GT-2066(P)18N1800-XX	F(W) OR EXXX(W) OR HXXX(W)	+18.0/-18.0	3.44/1.0	80
GT-2066(P)24N2400-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-24.0	2.85/0.50	80

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INDOOR USE ONLY

OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
TRIPLE OUTPUT SECTION (80W VERSION)			(PRELIMINARY)	
GT-2066(P)330512-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0/+12.0	7.0/4.6/1.0	58
GT-2066(P)0512N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0-12.0	7.0/2.7/1.0	80
GT-2066(P)0512N05-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/-5.0	9.0/2.5/1.0	80
GT-2066(P)051215-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+15.0	8.0/2.0/1.0	80
GT-2066(P)0515N15-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0/-15.0	8.0/2.0/0.67	80
GT-2066(P)051224-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+24.0	7.6/2.5/0.6	80
GT-2066(P)0524N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0/-12.0	8.0/1.0/1.33	80

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

GT: GLOBTEK SERIES

M: MEDICAL GRADE; - (DASH) FOR ITE GRADE

2065: 65W FAMILY DESIGNATOR

P: PASSIVE PFC VERSION; NO "P" FOR NON-PFC VERSION
553.3 TO 8048 = 55W @ 3.3V UP TO 80W @ 48V OUTPUT POWERXX: USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM
STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM
STANDARD OUTPUT VOLTAGEDUAL AND TRIPLE OUTPUT (GT(M)2066): XXYYZZ DESIGNATES
THE OUTPUT VOLTAGE COMBINATION.**F(W)**

F: OPEN FRAME VERSION

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

(E)XXX(W)AE: EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE
BOARD (3X5)XXX: DENOTES PERFORATED ENCLOSURE AND BASE PLATE
SIZE CODE WHERE XXX CAN BE FROM 000 TO 999
(MAXIMUM PERFORATED ENCLOSURE AND BASE PLATE SIZE IS
50" X 30")

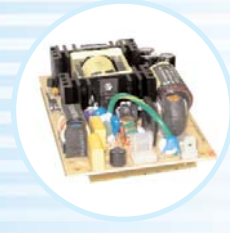
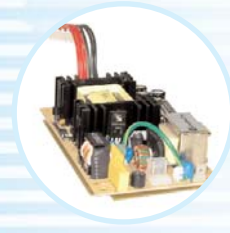
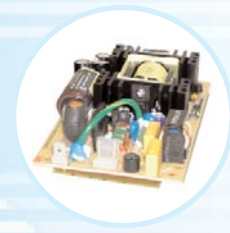
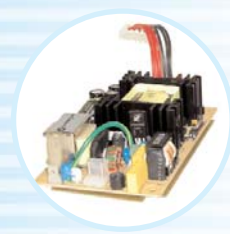
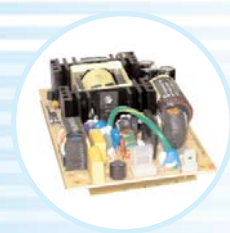
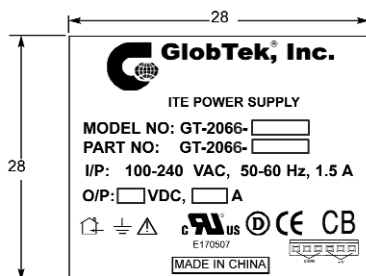
W: CLASS II UNITS (NO "W" MEANS CLASS I)

HXXX(W)AH: OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT
WIRE HARNESS USING UL1007/UL1015 AWG18 WIRESXXX: DENOTES INPUT AND 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: CLASS II UNITS (NO "W" MEANS CLASS I)

NOTES:

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) FOR 80W VERSIONS, 10CFM OF AIR FLOW DIRECTED TOWARD THE LONGER SIDE OF THE POWER SUPPLY IS REQUIRED.
THERMAL TESTING FOR 80W EVALUATION WAS DONE IN A WIND TUNNEL MEASURING 35" X 6" X 2" . A FINE WIRE MESH
SCREEN (3 LOCATIONS) WAS USED TO DISPERSE THE INCOMING AIR.
- 3) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR
AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 4) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING
ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 5) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 6) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD
EXCEED 130C.
- 7) 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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GT-2066 SERIES-80W



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CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW

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

OPEN FRAME CLASS I: T3

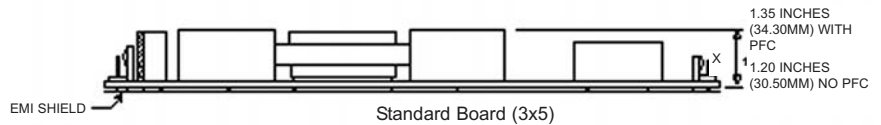
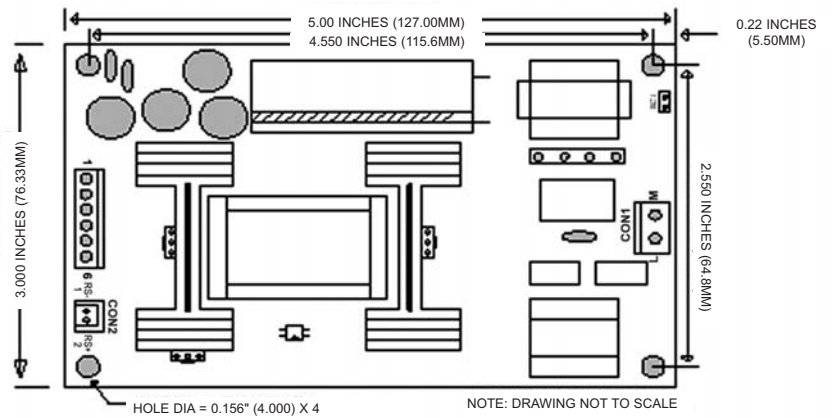
INPUT CONNECTOR (CON1)

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



DRAWING SHOWN IS FOR
SINGLE OUTPUT

X = 1.35 (34.30) INCHES FOR SINGLE OUTPUT

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