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|---|----------|---|----------|----------|
| | REV | DESCRIPTION | DATE | APPROVED |
| | A | INITIAL RELEASE, RFS.5831, DMR | 03/29/05 | DMR |
| | B | CORRECTION OF ELEC.SPEC.&DERATING CURVE, ADD P/N FOR CON301. | | |
| | | ADJUSTED OPERATING TEMP. SPEC., FB | 07/28/05 | DMR |
| | C | ADD MODEL DESCR., CORRECT PIN ASSIN. & PACKING BOX, RFS. 6941, FB | 08/24/05 | DMR |
| | D | UPDATE SPEC., RFS. 7519, FB | 11/21/05 | DMR |
| | E | ADD ADJUSTMENT DRAWING, RFS. 7825, FB | 02/01/06 | DMR |
| | F | UPDATE SPEC., RFS. 9207, JB | 08/24/06 | HM |
| | G | UPDATE OVERLOAD PROTECTION TO 145-150%, RFS. 9592, JB | 10/20/06 | HM |
| | H | UPDATE LABEL, DERATING CURVES, RFS. 14391, JB | 08/21/08 | HM |
| | I | UPDATE OPERAT. TEMPER., DERATING CURVE., RFS. 17378, JB | 10/29/09 | HM |

FEATURES

- UNIVERSAL INPUT WITH ACTIVE POWER FACTOR CORRECTION
- MEDICAL AND ITE GRADE VERSIONS
- EN55022 CLASS B COMPLIANT
- EN55011 CLASS B COMPLIANT
- EN61000-4-2, -3, -4, -5, -6 COMPLIANT
- BUILT-IN EMI FILTER
- REMOTE OUTPUT SENSING OPTION
- REMOTE INHIBIT
- SINGLE WIRE CURRENT SHARING (OPTIONAL)
- DC POWER GOOD
- OVERVOLTAGE PROTECTION
- OVERLOAD PROTECTION
- THERMAL OVERLOAD PROTECTION
- CONFIGURABLE OUTPUT FROM 2.5V TO 48V IN 0.1V INCREMENTS
- SINGLE OUTPUT WITH FAN COVER
- COMPACT 4.0" x 8.0" x 3.0" SIZE


1. ELECTRICAL SPECIFICATIONS:

INPUT

| | |
|-----------------------|--|
| INPUT RANGE | 90-264 VAC |
| INPUT LINE FREQUENCY | 47-63Hz |
| INPUT CURRENT | < 5A RMS @ 90VAC |
| INRUSH CURRENT | 40A TYPICAL, COLD START @ 25°C, 115VAC INPUT |
| EFFICIENCY | 80% TYPICAL AT FULL LOAD |
| POWER FACTOR | 0.99 TYPICAL |
| TURN-ON DELAY | 2 SECOND TYPICAL @ 115VAC NOMINAL LINE |
| INPUT LINE PROTECTION | MOV TRANSIENT PROTECTED. INPUT LINE FUSE PROVIDED ON-BOARD |
| SOFT START | STANDARD ON ALL MODELS |

OUTPUT

| | |
|-----------------------|--|
| MAXIMUM POWER | 350 WATTS |
| ADJUSTMENT RANGE | ± 5% |
| LOAD REGULATION | ± 2% MEASURED AT THE CONNECTOR SIDE |
| LINE REGULATON | ± 0.5% MEASURED AT THE CONNECTOR SIDE |
| HIGH FREQUENCY RIPPLE | 2% OF OUTPUT VOLTAGE, PEAK TO PEAK |
| TURN ON/OFF OVERSHOOT | 5% MAXIMUM, 1mS RECOVERY TIME |
| HOLD-UP TIME | 20 mS @ 350W LOAD, 115VAC NOMINAL LINE |
| TRANSIENT RESPONSE | 1mS RECOVERY TO WITHIN 1% OF THE REGULATION BAND WITH NO MORE THAN 5% OUTPUT VOLTAGE DEVIATION @ 25% LOAD STEP |

| | | | | | | |
|--|--|-------------------|---|-------------|---------------------------------|--|
| Foot Note: Globtek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instructions | DASH NO. | PART NO | REV. | DESCRIPTION | NOTES | |
| | TABULATION BLOCK | | | | | |
| Limitation of Use: Globtek product are not authorized for use as mission critical components in life support, hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of Globtek Inc. | TOLERANCES: DECIMALS ANGULAR .xx +/- 0.1 +/- 1° .xxx +/- .005 | |  186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111 www.globtek.com | | | |
| | INIT.BY: FB | DATE: 03/29/05 | | | | MILLIMETERS ANGULAR .xx +/- 0.3 +/- 1° .xxx +/- .013 |
| Contents of this document are subject to change without prior notice | DRAWN: NF | DATE: 03/29/05 | FSCN No.: G, Y | SIZE A | MODEL NO: GT(M)9200P350 | REV. I |
| | APRVD : DMR | DATE: 03/29/05 | SCALE: NONE | | PART NO: GT(M)9200P350 - FAMILY | SHEET 1 OF 6 |

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OVERLOAD PROTECTION
SHORT CIRCUIT
OVERVOLTAGE

INDICATOR

PROTECTED @ 145-150% OF FULL LOAD RATING. FOLDBACK FOLDBACK, AUTORECOVER UPON REMOVAL OF SHORT 10- 50% ABOVE NOMINAL OUTPUT, LATCHED, NEED AC CYCLING TO RESTORE OUTPUT GREEN LED FOR OUTPUT PRESENCE

| MODEL NUMBER | OUTPUT VOLTAGE | MAXIMUM LOAD |
|---|----------------|--------------|
| GT(M)9200P1853.3-X.X- [HIOXXX or HORXXX or HOXXX] | 3.3V | 56A |
| GT(M)9200P2313.3-X.X- [S or R or HIXXX] | 3.3V | 70A |
| GT(M)9200P2805-X.X- [HIOXXX or HORXXX or HOXXX] | 5V | 56A |
| GT(M)9200P3505-X.X- [S or R or HIXXX] | 5V | 70A |
| GT(M)9200P3507.5-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 7.5V | 46.67A |
| GT(M)9200P3509-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 9V | 38.89A |
| GT(M)9200P35012-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 12V | 29.17A |
| GT(M)9200P35015-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 15V | 23.33A |
| GT(M)9200P35018-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 18V | 19.44A |
| GT(M)9200P35024-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 24V | 14.58A |
| GT(M)9200P35036-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 36V | 9.72A |
| GT(M)9200P35048-X.X- [S or R or HIOXXX or HORXXX or HOXXX or HIXXX] | 48V | 7.29A |

MODEL DESCRIPTION:

GT(M)9200P1853.3-X.X TO 35048-X.X

GT : GLOBTEK SERIES
M : MEDICAL GRADE. REPLACE "M" WITH "-" (DASH) FOR ITE GRADE
9200 : FAMILY DESIGNATOR
1853.3 TO 35048 : 185W 3.3V TO 350W 48V OUTPUT POWER OUTPUT VOLTAGE
X.X : OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL BY SUBTRACTING X.X VOLT FROM STANDARD OUTPUT VOLTAGE.

S : INPUT HEADER AND OUTPUT METAL TERMINAL ON BOARD.
R : IEC INPUT RECEPTACLE AND OUTPUT METAL TERMINAL ON BOARD.
HIOXXX : INPUT AND OUTPUT WIRE HARNESS. WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM LENGHT FOR INPUT IS 100MM AND 200MM FOR OUTPUT).
HORXXX : IEC INPUT RECEPTACLE ON BOARD AND OUTPUT WIRE HARNESS. WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM WIRE LENGHT FOR OUTPUT IS 200MM).
HOXXX : INPUT HEADER CONNECTOR ON BOARD AND OUTPUT WIRE HARNESS. WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM WIRE LENGTH FOR OUTPUT IS 200MM).
HIXXX : INPUT WIRE HARNESS. OUTPUT METAL TERMINAL ON BOARD. WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM WIRE LENGTH FOR INPUT IS 100MM).



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Tel. 201-784-1000 Fax 201.784.0111

DWG TITLE: SWITCHER, 350 WATT, FAMILY, SINGLE OUTPUT,
UNIVERSAL INPUT, MEDICAL AND ITE, CLASS I

MODEL NO: GT(M)9200P350

REV.
I

PART NO: GT(M)9200P350 - FAMILY

SHEET 2 OF 6

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LOGIC CONTROL

REMOTE ON/OFF

OPEN, INHIBITS OUTPUT. INTERNALLY CONNECTED TO COMMON BY DEFAULT

DC POWER GOOD

TTL LOGIC GOES HIGH AFTER THE OUTPUT IS IN REGULATION. IT GOES LOW WHEN THERE IS LOSS OF REGULATION.

REMOTE SENSE

COMPENSATE FOR 0.5V LEAD DROP.

WILL OPERATE WITHOUT REMOTE SENSE CONNECTION.

ENVIRONMENTAL

TEMPERATURE COEFFICIENT

± 0.02% PER °C, TYPICAL

OPERATING TEMPERATURE

0° TO 70°C AT FULL POWER

STORAGE TEMPERATURE

-40° TO 85°C

RELATIVE HUMIDITY

OPERATING; 0-90% NON-CONDENSING

ALTITUDE

UP TO 10000 FEET

RANDOM VIBRATION/

TRANSIENT DROP

MIL-STD 810E

MTBF

>100,000 HOURS @ 25° AMBIENT TEMPERATURE, FULL LOAD, NOMINAL LINE, MIL-217 STD.

SAFETY

HIPOT (PRI-SEC)

4242 VDC FOR ITE VERSION

5656 VDC FOR MEDICAL VERSION

EARTH LEAKAGE

< 0.3mA @ 50/60Hz, 264 VAC INPUT

APPROVAL

ITE VERSION

UL60950-1 (3RD EDITION), CUL TO 22.2 NO. 60950-1,

CB REPORT, DEMKO TO EN60950-1

MEDICAL VERSION

UL60601-1, CUL TO 22.2 NO. 60601-1,

CB REPORT, DEMKO TO EN60601-1

EMI

EN55022 CLASS B AND FCC PART 15, TESTED WITH RESISTIVE LOAD.

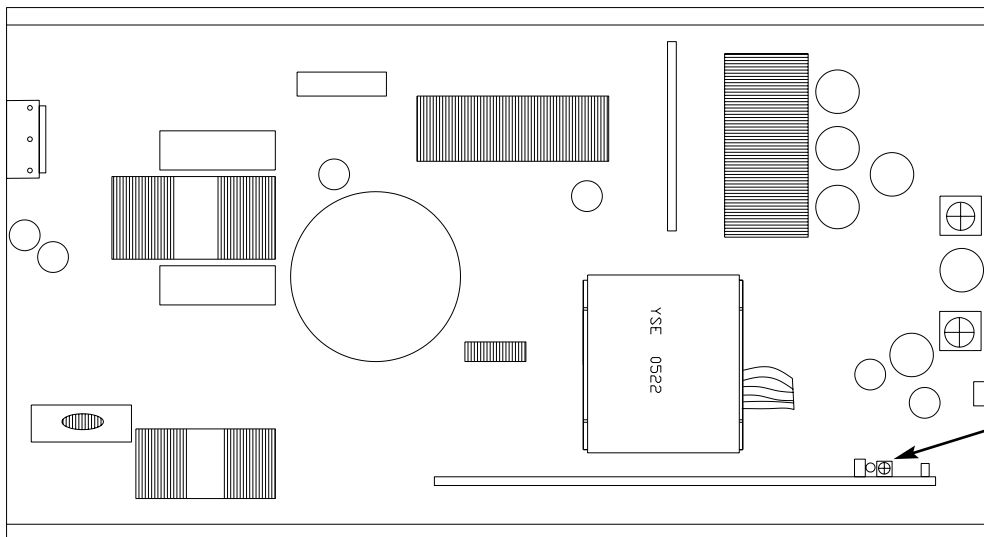
CE MARK

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

OUTPUT VOLTAGE ADJUSTMENT:



POTENTIOMETER VR301 FOR OUTPUT VOLTAGE ADJUSTMENT TO +/-5% OF RATED

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DWG TITLE: SWITCHER, 350 WATT, FAMILY, SINGLE OUTPUT,
UNIVERSAL INPUT, MEDICAL AND ITE, CLASS 1

MODEL NO: GT(M)9200P350

REV.
I

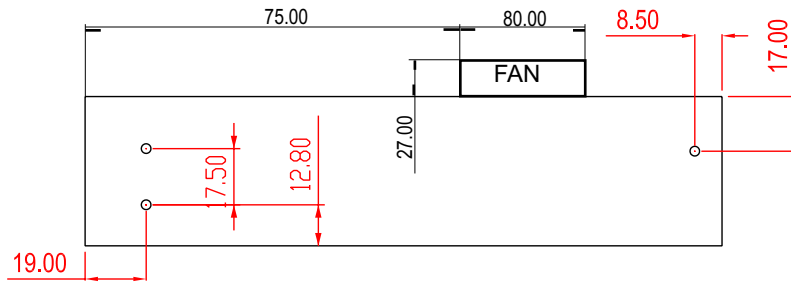
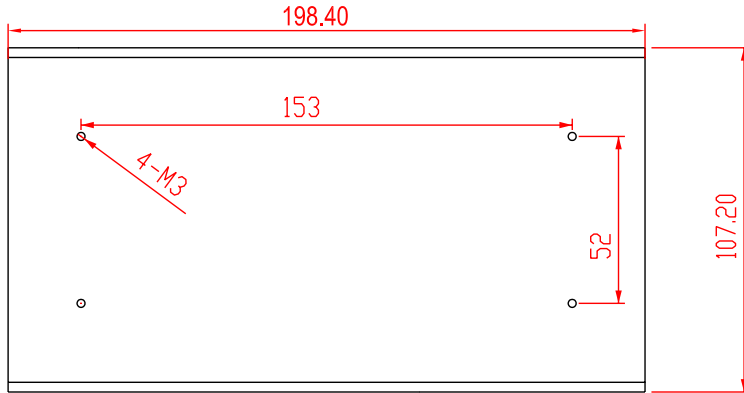
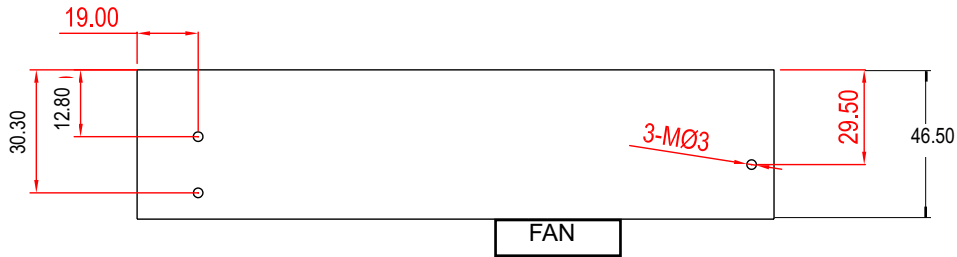
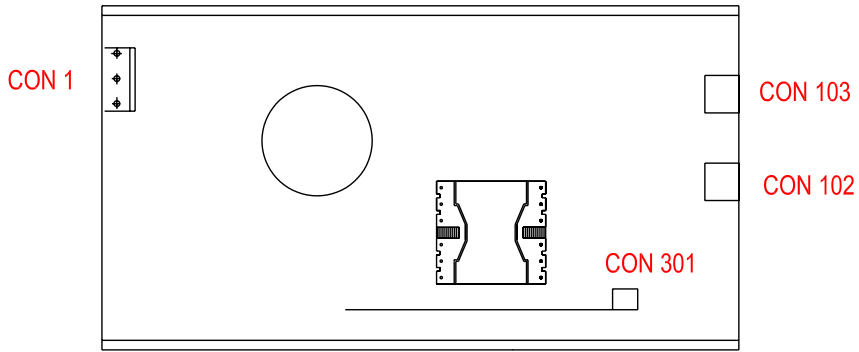
PART NO: GT(M)9200P350 - FAMILY


SHEET 3 OF 6

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2. MECHANICAL SPECIFICATION

SIZE: 198.40 x 107.20 x 46.50 mm



| | | |
|---|---|--|
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| | DWG TITLE: SWITCHER , 350 WATT, FAMILY, SINGLE OUTPUT, UNIVERSAL INPUT, MEDICAL AND ITE, CLASS I | |
| MODEL NO: GT(M)9200P350 | REV. I | |
| PART NO: GT(M)9200P350 - FAMILY | SHEET 4 OF 6 | |

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PIN ASSIGNMENTS:

CON1: (PIN 1: EARTH, PIN 3: LINE, PIN 5: NEUTRAL)
MOLEX P/N 26-62-4051 (FOR S and HOXXX versions)
MOLEX P/N 09-50-3051, CRIMP TERMINAL P/N 08-52-0071 (FOR HIXXX and HIOXXX versions)
INALWAYS P/N 0707-1 (FOR VERSIONS R and HORXXX)

CON102 (POSITIVE), CON103 (COMMON):
M4X6 SCREW TERMINAL (FOR S, R and HIXXX versions)
MOLEX P/N 39-01-2165 (FOR HIOXXX, HIXXX, HOXXX and HORXXX versions)

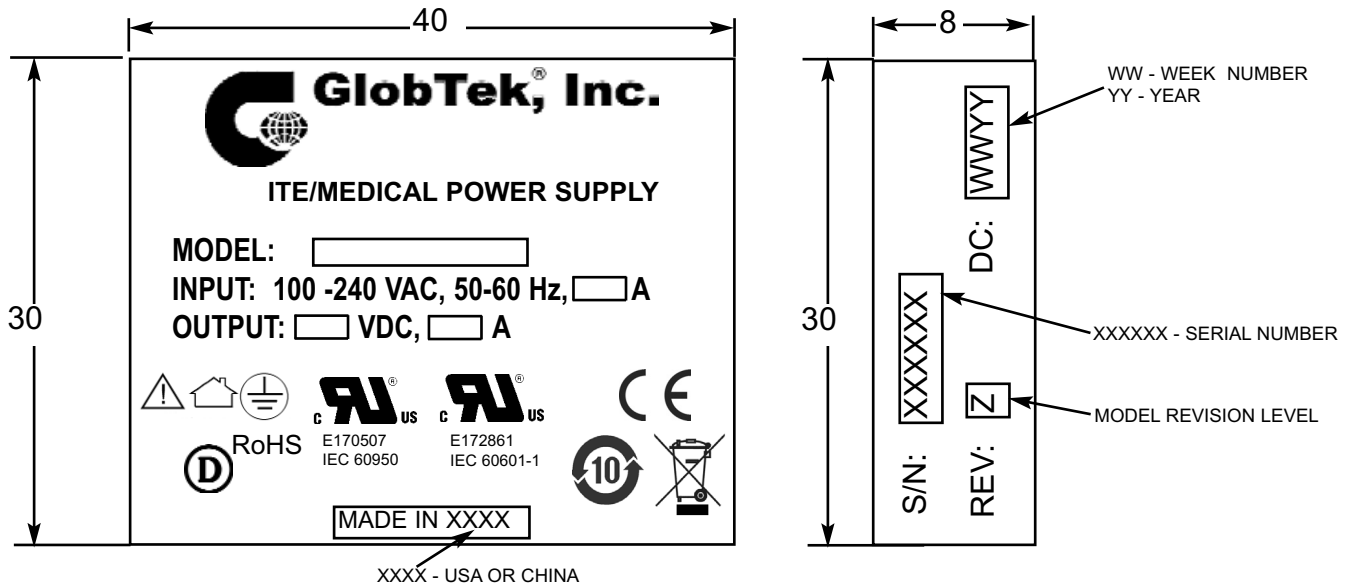
MATING CONNECTORS:

CON1:
MOLEX P/N 09-50-3051, CRIMP TERMINAL P/N 08-52-0071 (FOR VERSIONS S and HOXXX)
MOLEX P/N 26-62-4051 (FOR VERSIONS HIXXX and HIOXXX)

CON102 / CON103:
MOLEX P/N 39-28-8160, CRIMP TERMINAL P/N 44485-1211 (FOR VERSIONS HIOXXX, HIXXX, HOXXX and HORXXX)

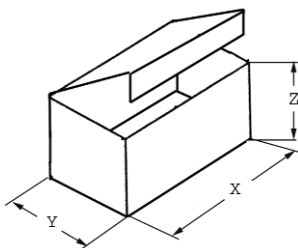
3. LABEL:

MATERIAL: .007 (0.18) THICK FLAT THERMAL TRANSFER, IMPRINTABLE, WHITE,SILVER OR GRAY POLYESTER SHEET WITH BLACK NOMENCLATURE.
MANUFACTURER: STEVEN LABEL, MATERIAL I.D. NO.3302-33, UL FILE NO. MH12821(N), UL MATERIAL DESIGNATION FILE NO. GHW332RL. OPTIONAL LABEL MATERIAL CAN BE SUBSTITUTED PROVIDING



4. INDIVIDUAL PACKING BOX:

MATERIAL: CORRUGATED FIBERBOARD, F-FLUTE 0.8 (3.0) THICK, DOUBLE WALL CONSTRUCTION.
EXTERNAL FINISH: WHITE, COATED WITH GLOSS FINISH (AQUEOUS OR VARNISH) STYLE: TUCK SIDES WITH LOCKING TABS ON BOTH SIDES OF BOX. NO PRINTING ON THE OUTSIDE OF BOX.



X= 8.07" (205 mm)
Y= 4.53" (115 mm)
Z= 3.23" (82 mm)

POWER SUPPLY WILL BE CONTAINED IN A PLASTIC BAG AND INDIVIDUAL WHITE BOX.

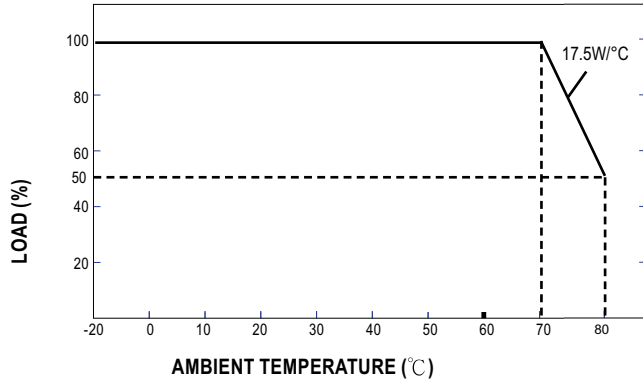
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|--|------------------------|--|
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| DWG TITLE: SWITCHER , 350 WATT, FAMILY, SINGLE OUTPUT, UNIVERSAL INPUT, MEDICAL AND ITE, CLASS I | | |
| MODEL NO: | GT(M)9200P350 | REV. I |
| PART NO: | GT(M)9200P350 - FAMILY | SHEET 5 OF 6 |

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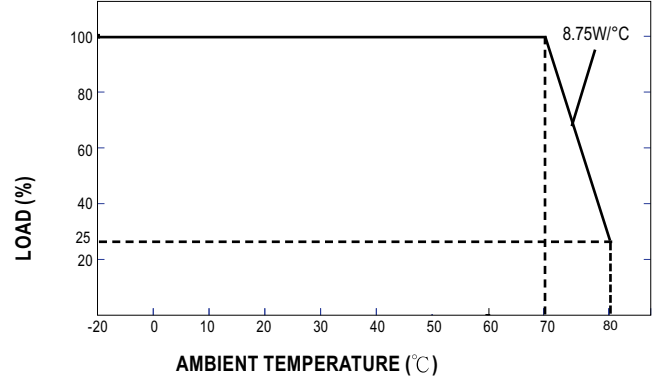
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5. OUTPUT DERATING CURVES:

MODELS WITH OUTPUT $\geq 12V$



MODELS WITH OUTPUT $< 12V$



NOTES:

1. MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT.
2. ALL MEASUREMENTS ARE MADE DIRECTLY AT THE TERMINALS OF THE SUPPLY.
3. OUTPUT RIPPLE AND SPIKE ARE MEASURED DIRECTLY AT THE OUTPUT TERMINALS OF THE POWER SUPPLY WITH 10 μ F TANTALUM AND 0.1 μ F CERAMIC CAPACITORS CONNECTED IN PARALLEL. PEAK-TO-PEAK METERING EQUIPMENT MUST HAVE A 20 MHz FREQUENCY RESPONSE WITH PROBES AND CABLES THAT MAINTAIN A FREQUENCY RESPONSE OF 20Hz TO 20MHz. OUTPUT RIPPLE SPECS OF 3.3V, 5V AND 7.5V MODELS IS 3% OF RESPECTIVE OUTPUT VOLTAGE.
4. CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOAD SET TO FULL. PSU AND RESISTIVE LOAD WERE MOUNTED TOGETHER IN 30 x 30 x 3 mm ALUMINUM PLATE.
5. REMOTE SENSE WIRE SHOULD BE TWISTED TOGETHER WHEN USED.
6. ALL MEASUREMENTS ARE MADE AT 25°C AMBIENT TEMPERATURE AND ARE TYPICAL.
7. MOUNTING MAXIMUM INSERTION DEPTH IS 3MM.
8. GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
9. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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UNIVERSAL INPUT, MEDICAL AND ITE, CLASS I

MODEL NO: GT(M)9200P350

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PART NO: GT(M)9200P350 - FAMILY

SHEET 6 OF 6