



ISO 9001:2000  
REGISTERED

## GT-9250 SERIES-250W



### 250 Watts, Universal Input, Single Output Switchers



FOR INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE RANGE:**  
UNIVERSAL INPUT FROM 100VAC TO 240VAC

**INPUT CURRENT:**  
4.0 MAXIMUM

**INPUT FREQUENCY RANGE:**  
47HZ TO 63HZ

**INRUSH CURRENT:**  
30A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**OUTPUT LOAD REGULATION:**  
+/- 2% MEASURED AT OUTPUT CONNECTOR END

**INPUT REGULATION:**  
+/- 1.0% OUTPUT MEASURED AT OUTPUT CONNECTOR

**TRANSIENT RESPONSE:**  
MAXIMUM OUTPUT DEVIATION OF +/-5% OF NOMINAL OUTPUT FOR A 0% TO 25% STEP LOAD, 500ms TYPICAL RESPONSE TIME

**OUTPUT SHORT CIRCUIT PROTECTION:**  
HICCUP MODE WITH AUTO RECOVERY ONCE FAULT DISAPPEARS

**OVERLOAD PROTECTION:**  
POWER SUPPLY IS OUTPUT POWER LIMITED, HICCUP MODE

**FULL LOAD EFFICIENCY:**  
78% TYP. @ FULL LOAD 115V, DEPENDING ON OUTPUT VOLTAGE

**HOLD-UP TIME:**  
25mS MINIMUM AT FULL LOAD, 115V INPUT

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**SWITCHING FREQUENCY OUTPUT RIPPLE:**  
LESS THAN 1% OF OUTPUT VOLTAGE, TYPICAL

**OPERATING TEMPERATURE:**  
-0°C TO 50°C, DERATE OUTPUT AT 3% PER DEGREE C FROM 50°C TO 70°C

**TEMPERATURE COEFFICIENT:**  
+ / - 0.02%/C TYPICAL

**EARTH LEAKAGE CURRENT:**  
LESS THAN 300uA AT 264Vac

**ISOLATION VOLTAGE:**  
PRIMARY TO SECONDARY: 4242VDC  
PRIMARY TO EARTH: 2121VDC

**INPUT PROTECTION:**  
LINE FUSING FOR ITE GRADE

**SAFETY AGENCY APPROVALS: (PENDING)**  
EN60950, UL60950, CB REPORT AND CE MARK

**CLASSIFICATION ACCORDING TO THE TYPE OF PROTECTION AGAINST ELECTRIC SHOCK:**  
CLASS I

**CLASSIFICATION ACCORDING TO THE DEGREE OF PROTECTION AGAINST HARMFUL INGREDIENTS OF WATER:**  
IPX0

**MODE OF OPERATION:**  
CONTINUOUS

#### CLASSIFICATION ACCORDING TO THE DEGREE OF SAFETY APPLICATION IN THE PRESENCE OF FLAMMABLE ANESTHETIC:

POWER SUPPLY CANNOT BE USED IN PRESENCE OF FLAMMABLE ANESTHETIC

**RELATIVE HUMIDITY:**  
NON-CONDENSING; 5% TO 90% RH

**WEIGHT:**  
25 LB MAXIMUM

**MTBF MIL-HDBK-217F:**  
200K HRS 25C FULL LOAD, 115V INPUT VOLTAGE

#### MODEL DESCRIPTION:

GT(M)9250P1203.3 TO 25048-X.X  
GT: GLOBTEK SERIES CODE  
M: MEDICAL GRADE; REPLACE WITH "-" (DASH) FOR I.T.E. GRADE  
9250P: SERIES DESIGNATOR  
1203.3 TO 25048: 120W 3.3V TO 250W 48V, DESCRIBES OUTPUT POWER AND OUTPUT VOLTAGE  
-X.X: USE ONLY TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL  
BY SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE  
EXAMPLE; REQUIRED VOLTAGE IS 10V; MODEL: GTM9250P25012-2.0  
-X.X IS NOT REQUIRED FOR STANDARD OUTPUT VOLTAGES  
F-: FAN CONTROL OPTION; ADD "F" IF FAN CONTROL IS DESIRED.  
S: STANDARD CONFIGURATION; INPUT HEADER ON BOARD AND OUTPUT TERMINAL BLOCK  
M: INPUT AND OUTPUT HEADER ON BOARD  
HIXXX: INPUT WIRE HARNESS AND OUTPUT TERMINAL BLOCK. XXX IS A CODE FROM 000 TO 999 ASSIGNED TO INDICATE WIRE HARNESS LENGTH. MAXIMUM HARNESS LENGTH IS 200mm.  
HOXXX: INPUT HEADER ON BOARD AND OUTPUT WIRE HARNESS. XXX IS A CODE FROM 000 TO 999 ASSIGNED TO INDICATE WIRE HARNESS LENGTH. MAXIMUM HARNESS LENGTH IS 200mm.  
HIOXXX: INPUT AND OUTPUT WIRE HARNESS. XXX IS A CODE FROM 000 TO 999 ASSIGNED TO INDICATE WIRE HARNESS LENGTH. MAXIMUM HARNESS LENGTH IS 200mm .  
HIHXXX: INPUT WIRE HARNESS AND OUTPUT HEADER ON BOARD.

#### NOTE:

DUE TO CURRENT HANDLING LIMITATION OF THE OUTPUT CONNECTOR, M, HOXXX, HIOXXX AND HIHXXX ARE AVAILABLE ONLY FROM 15V TO 48V OUTPUTS.

#### OUTPUT VOLTAGE / CURRENT: 250 WATTS MODELS, WITH SIDE BUILT-IN FANS

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-9250P1203.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+3.30	0 - 36.36	0 - 120
GT-9250P1505.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+5.00	0 - 30.00	0 - 150
GT-9250P2007.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+7.50	0 - 24.00	0 - 200
GT-9250P2009.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+9.00	0 - 22.00	0 - 200
GT-9250P25012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+12.00	0 - 20.83	0 - 250
GT-9250P25015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+15.00	0 - 16.66	0 - 250
GT-9250P25018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+18.00	0 - 13.88	0 - 250
GT-9250P25024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+24.00	0 - 10.41	0 - 250
GT-9250P25036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+36.00	0 - 6.94	0 - 250
GT-9250P25048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	+48.00	0 - 5.21	0 - 250

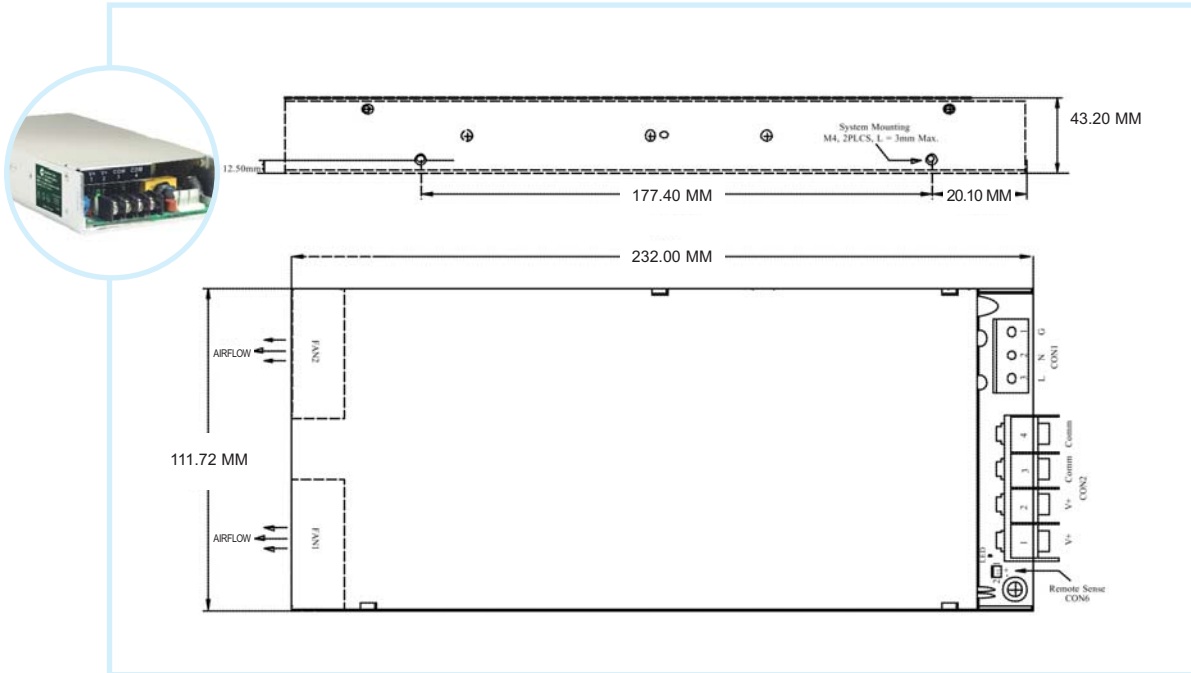
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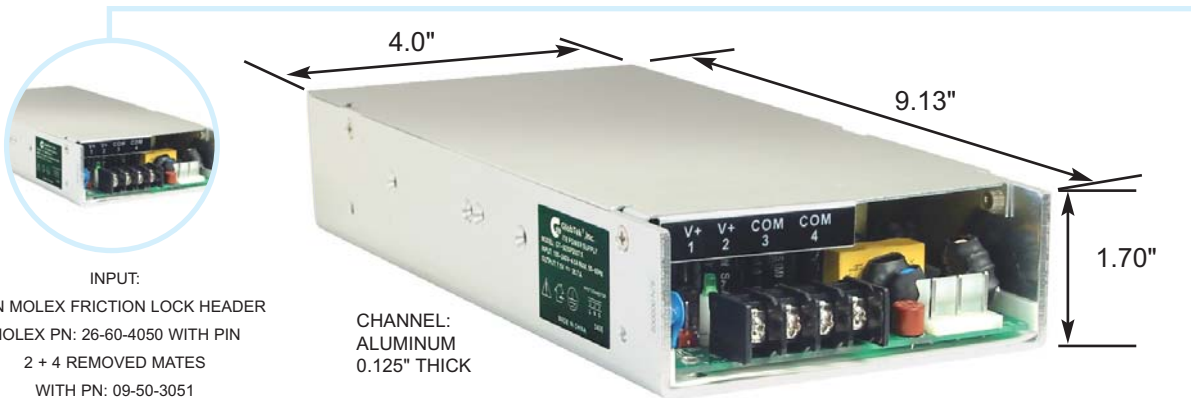


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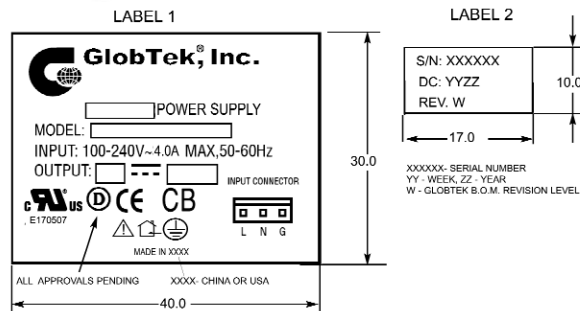


ENCLOSURE

CONFIGURATION: ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOWN ABOVE.



- INPUT:  
3 PIN MOLEX FRICTION LOCK HEADER  
MOLEX PN: 26-60-4050 WITH PIN 2 + 4 REMOVED MATES WITH PN: 09-50-3051  
PIN 1: GROUND  
PIN 3: AC NEUTRAL  
PIN 5: AC LINE  
OUTPUT:  
4 PIN TERMINAL BLOCK  
PIN 1,2: V+  
PIN 3,4: COMM  
CON 3: REMOTE SENSE CONNECTOR, MOLEX 22-28-0020  
MATES WITH MOLEX PN: 22-01-2021  
PIN 1: +SENSE; PIN2: -SENSE



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