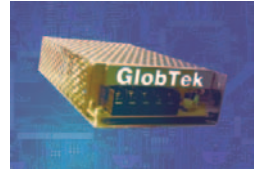




ISO 9001:2000  
REGISTERED

## GT-100 SERIES-100W

**100 Watts, Switchmode Power Supply,  
Single Output, Enclosed, Universal Input**



### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
85 VAC TO 264 VAC SELECTED BY SWITCH

**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):**  
100 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
100 mV (P-P) MODEL DEPENDENT

**OUTPUT REGULATION (LINE/LOAD):**  
0.2% - 0.5% MODEL + OUTPUT DEPENDENT

**LINE REGULATION:**

**TURN ON / TURN OFF OVERTHOOT:**  
4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
10 mSEC MIN AT NOMINAL INPUT 115 VAC AND FULL LOAD

**INRUSH CURRENT:**  
30 A MAX AT COLD START FOR N.A. (60A FOR EURO),  
MODEL DEPENDENT

**EFFICIENCY:**  
70% - 84 % TYPICAL, MODEL + OUTPUT DEPENDENT

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE  
FOR MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
UL 1012, UL 60950 / 1950, CUL TO 22.2 # 234, 950, TUV TO  
EN 60950, CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**  
1500VAC PRIMARY-SECONDARY; 1500 VAC PRIMARY-  
GROUND 500 VAC SECONDARY - GROUND

**LEAKAGE CURRENT:**  
< 1 mA/240VAC

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, 1 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 45° C, DERATE LINEARY TO 60% OUTPUT POWER  
AT 60°C

**STORAGE TEMPERATURE:**  
-40°C TO 80° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
GT-100-3	+ 3 +/-2%	20	0 - 100 W
GT-100-5	+ 5 +/-2%	20	0 - 100 W
GT-100-7.5	+ 7.5 +/-1%	13.6	0 - 100 W
GT-100-10	+ 10 +/-1%	10	0 - 100 W
GT-100-12	+ 12 +/-1%	8.5	0 - 100 W
GT-100-15	+ 15 +/-1%	6.7	0 - 100 W
GT-100-18	+ 18 +/-1%	5.6	0 - 100 W
GT-100-24	+ 24 +/-1%	4.5	0 - 100 W
GT-100-27	+ 27 +/-1%	3.7	0 - 100 W
GT-100-48	+ 48 +/-1%	2	0 - 100 W

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

100 Watts, Switchmode Power Supply,  
Single Output, Enclosed, Universal Input



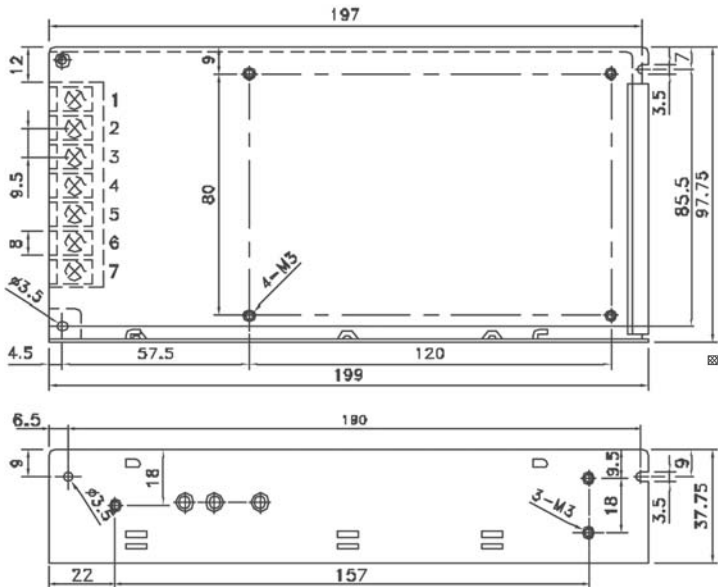
ENCLOSURES



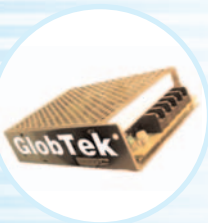
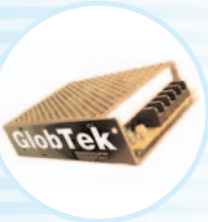
SIZE:

199 X 98 X 38 ± 1 MM

CONFIGURATION: ENCLOSED SWITCHING  
POWER SUPPLY, AL. ALLOY 3003 OR  
EQUIVALENT, GOLD IRRIDITE, CHEM.  
TREATED FINISH,, CHASSIS: "U" CHANNEL,  
WITH (7) MOUNTING METRIC INSERT M3,  
AS SHOWN BELOW: (4) BOTTOM; (3)  
RIGHT SIDE. COVER: "L" SHAPE WITH  
HOLES SCREENED PATTERN FOR  
NATURAL CONVECTION COOLING  
THERMAL TRANSFER.

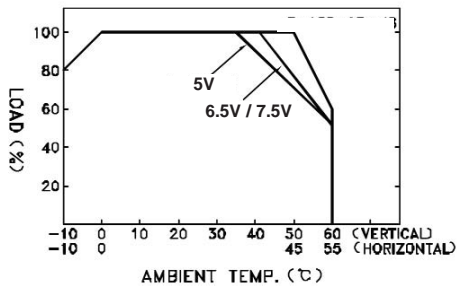


- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG
- ☒ PIN 4,5 : DC OUTPUT -V
- ☒ PIN 6,7 : DC OUTPUT +V

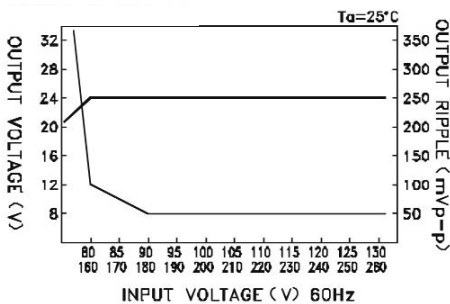


CHARTS

OUTPUT DERATING



STATIC CHARACTERISTICS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.