



ISO 9001:2000  
REGISTERED



**0-20 Watts, DC/DC Desktop Switchmode Power Supply,  
Single Output Family 11-16 VDC Input, ITE, Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

11-16 VDC

**INPUT CURRENT:**

< 2.7A (R.M.S.)

**OUTPUT CURRENT:**

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

23 WATTS MAX

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

1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**

± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**

± 0.5 % MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERSHOOT:**

4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**INRUSH CURRENT:**

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**

75 % TYPICAL

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS (PENDING):**

ITE MODEL: UL60950, CUL TO 22.2 # 950, TUV GS EN60950  
EMI: COMPLIES WITH EN55022 , CLASS B AND  
FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE  
LOAD, BOTH CONDUCTED AND RADIATED  
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.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**

0°C TO 40° C

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**WEIGHT:**

165 g

**MODEL NUMBER CODE:**

GT-2: INTERNAL CODE; D: ITE MODELDC INPUT

1088: FAMILY ENCLOSURE DESIGNATION;

L(M,H): I/P VOLTAGE (NOM.): L:12V(10~15VDC);

M:24V(18~36VDC); H:48V(36~72VDC)

0803 TO 2010: O/P POWER/VOLTAGE

**NOTES:**

1. -: ITE MODEL OR (M): MEDICAL MODEL
2. EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
3. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
4. X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.

**OUTPUT VOLTAGE / CURRENT:**

**CLASS II MODELS, DOUBLE INSULATED, T2**

| MODEL NUMBER      | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (A) | RATED OUTPUT POWER (W) |
|-------------------|----------------------|--------------------|------------------------|
| GTD21088L-0803-T2 | + 3.30               | 0 - 2.50           | 0 - 9                  |
| GTD21088L-1105-T2 | + 5.0                | 0 - 2.20           | 0 - 11                 |
| GTD21088L-1505-T2 | + 5.0                | 0 - 3.0            | 0 - 15                 |
| GTD21088L-1806-T2 | + 6.0                | 0 - 3.0            | 0 - 18                 |
| GTD21088L-1207-T2 | + 7.50               | 0 - 1.50           | 0 - 12                 |
| GTD21088L-1907-T2 | + 7.50               | 0 - 2.50           | 0 - 19                 |
| GTD21088L-2309-T2 | + 9.0                | 0 - 2.50           | 0 - 23                 |
| GTD21088L-2010-T2 | + 10.0               | 0 - 2.0            | 0 - 20                 |

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





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## GTD21088L SERIES-20W

### 0-20 Watts, DC/DC Desktop Switchmode Power Supply, Single Output Family 11-16 VDC Input, ITE, Class II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



#### ENCLOSURE: DESKTOP, DUAL CORD

HOUSING: HIGH IMPACT PLASTIC, 94VO POLYCARBONATE, NON-VENTED, COLOR BLACK

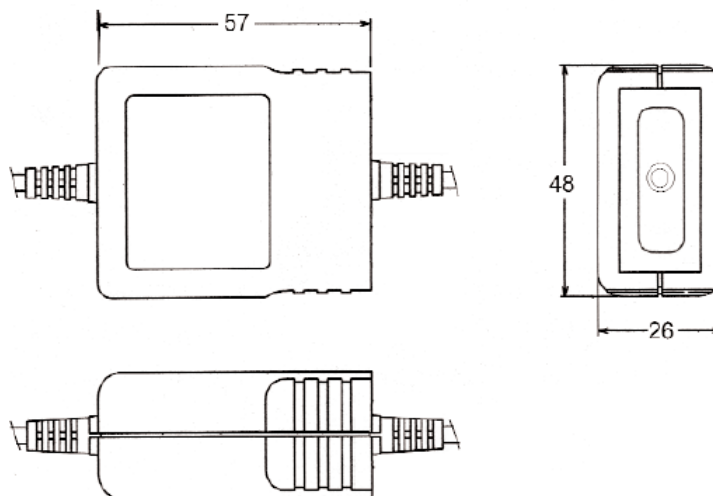


#### SIZE:

57 x 48 x 26 + 1mm

#### INPUT CONNECTOR:

2 CONDUCTOR, 18AWG STRANDED  
WIRE, FLAT UL VW-1 RATED UL  
2464 CORD TYPE, COLOR BLACK,  
LENGTH OF CORD: 1830 + 50mm.  
CORD IS MEASURED FROM THE  
HOUSING TO THE END OF  
OVERMOLD OF THE CONNECTOR.  
CABLE MARKED WITH WIRE  
GAUGE, AND ALL APPLICABLE  
RATING AND SAFETY APPROVALS.



#### INPUT CONNECTOR:

##### OPTION # 1:

CAR MALE CIGARETTE LIGHTER DC  
POWER PLUG (+,-) TIP POSITIVE WITH  
5A/125V SLO-BLO FUSE

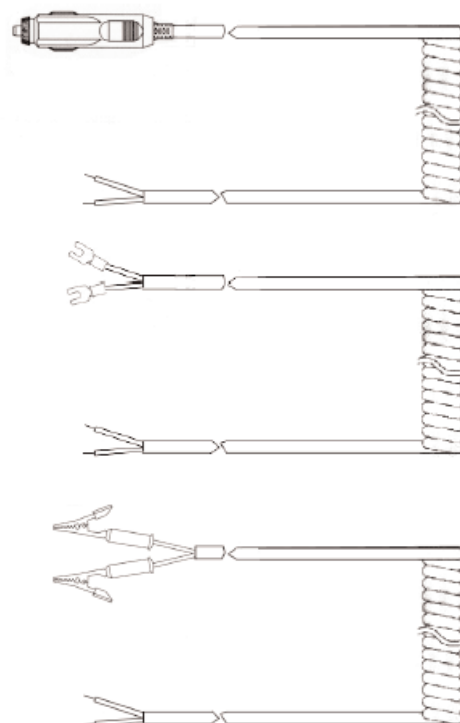
##### OPTION # 2:

SPADE TONGUE TERMINAL 0.25" FAST  
ON SOFT INSULATION TYPE

#### INPUT CONNECTOR:

##### OPTION # 3:

ALLIGATOR CLIPS



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