



ISO 9001:2000  
REGISTERED

## GTD21148 SERIES-24W

### 24 Watts, Switchmode Power Supply, Single Output, Family, Input, ITE, 11-32VDC

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



#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

11-32 VDC

##### INPUT CURRENT:

<2 A (R.M.S.) MAX

##### OUTPUT CURRENT:

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

24 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

##### TURN-ON DELAY:

1 SEC MAX

##### HOLD-UP TIME:

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

##### 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:

ITE MODEL: UL60950, CUL TO 22.2# 950, TUV TI EN60950, CE  
CLASS I & II

##### DIELECTRIC WITHSTAND VOLTAGE:

3000VAC PRIMARY-SECONDARY;  
1500 VAC PRIMARY-GROUND

#### LEAKAGE CURRENT:

< 0.25 mA

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS  
B WHEN TESTED WITH A RESISTIVE LOAD, BOT  
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 40° C

#### STORAGE TEMPERATURE:

-40°C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### MODEL NUMBER CODE:

GT-2: INTERNAL CODE;

D: ITE MODEL DC INPUT

1148: FAMILY ENCLOSURE

DESIGNATION;

1005 TO 2424: O/P POWER/VOLTAGE

#### NOTES:

1. EACH OUTPUT CURRENT CAN VARY WITHIN ITS  
DESIGNATION RANGE., AS LONG AS THE OUTPUT  
POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO  
48V IN 0.1V INCREMENTS.
3. 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)
GTD21148-1005	+ 5.0	0 -2.0	
GTD21148-1505	+ 5.0	0 -3.0	
GTD21148-1507	+ 7.50	0 -2.0	
GTD21148-2412	+ 12.0	0 -2.0	
GTD21148-2416	+ 16.0	0 -1.5	
GTD21148-2418	+ 18.0	0 -1.33	
GTD21148-2424	+ 24.0	0 -1.0	

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



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**ENCLOSURE: DESKTOP, DUAL CORD**

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



**SIZE:**

CLASS II MODELS:

103 X 50 X 32.5 + 1 mm

**INPUT CONNECTOR:**

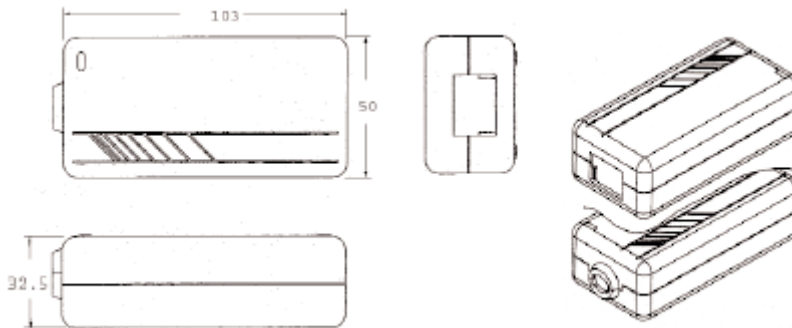
CONDUCTOR, 18AWG (OR 20 AWG)  
STRANDED WIRE, FLAT SPT-1 OR  
UL2468 CORD TYPE, COLOR BLACK,

LENGTH OF THE CORD:

1830 +100,-0 mm.

CORD IS MEASURED FROM THE  
HOUSING TO THE END OF OVERMOLD  
OF THE CONNECTOR.

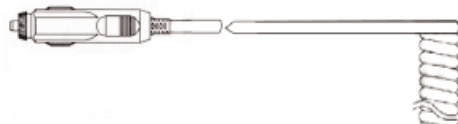
CABLE MARKED WITH WIRE GAUGE,  
AND ALL APPLICABLE RATING AND  
SAFETY APPROVALS.



**INPUT CONNECTOR:**

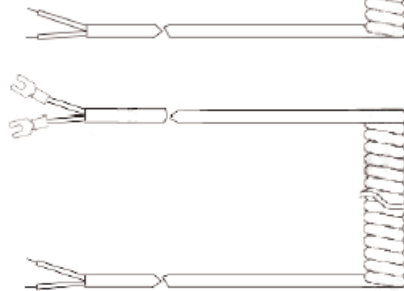
**OPTION # 1:**

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

