



ISO 9001:2000
REGISTERED

GTD21109 SERIES-60W



0-60 Watts, DC-DC Switchmode Power Supply, Single Output, Family, Input 11-16VDC, ITE

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



ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE:
11-16VDC

INPUT CURRENT:
6.5 A (R.M.S.) MAX

OUTPUT CURRENT:
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

OUTPUT POWER (RATED):
60 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 500µs 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, 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 200,000 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:

209 g

MODEL NUMBER CODE:

GT-2: INTERNAL CODE;
D: ITE MODEL DC INPUT
1148: FAMILY ENCLOSURE DESIGNATION;
3818 TO 6019: 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.
4. DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

OUTPUT VOLTAGE / CURRENT: CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTD21109-4515	+ 15.0	0 - 3.0	0 - 45
GTD21109-5316	+ 15.0	0 - 3.50	0 - 52.5
GTD21109-5618	+ 16.0	0 - 3.50	0 - 56
GTD21109-6016	+ 16.0	0 - 3.70	0 - 59.2
GTD21109-3818	+ 18.0	0 - 2.10	0 - 37.8
GTD21109-5418	+ 18.0	0 - 3.0	0 - 54
GTD21109-5619	+ 19.0	0 - 2.90	0 - 55.1
GTD21109-6019	+ 19.0	0 - 3.10	0 - 58.9
GTD21109-5621	+ 21.0	0 - 2.60	0 - 54.6
GTD21109-5624	+ 24.0	0 - 2.30	0 - 55.2
GTD21109-5436	+ 36.0	0 - 1.50	0 - 54
GTD21109-4848	+ 48.0	0 - 1.0	0 - 48

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 FOR INDOOR USE ONLY

ENCLOSURE:

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



SIZE:

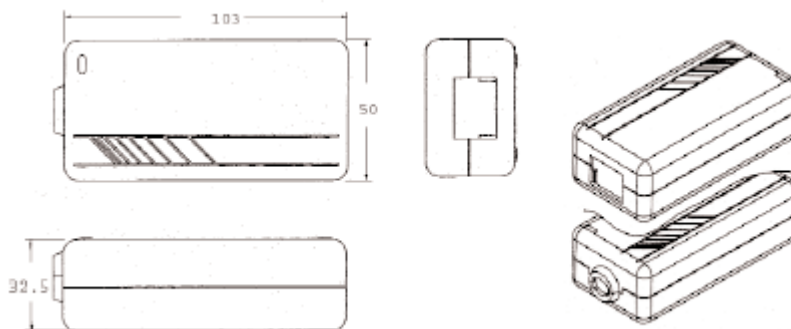
CLASS II MODELS:

SIZE: 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 ± 50 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

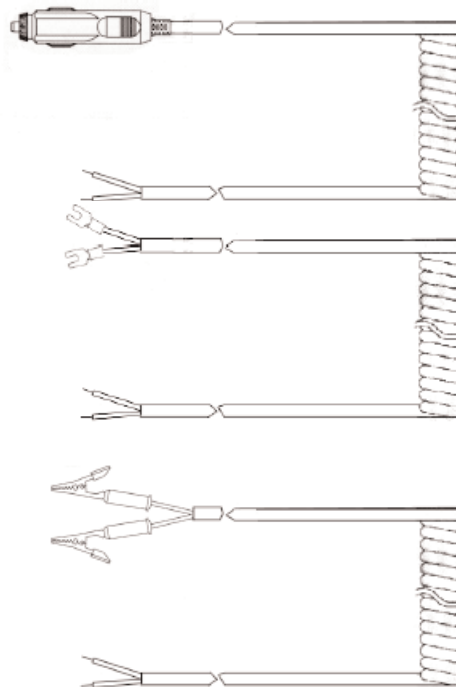
OPTION # 2:

SPADE TONGUE TERMINAL 0.25" FAST
ON SOFT INSULATION TYPE

INPUT CONNECTOR:

OPTION # 3:

ALLIGATOR CLIPS



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