



ISO 9001:2000
REGISTERED

GTM21089 SERIES-19W



0-19 Watts, DeskTop Universal Input, Single Output Family, Medical Class I & II

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



ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE:

90 VAC TO 264 VAC

INPUT CURRENT:

< 0.5 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):

19 WATTS MAX

OUTPUT RIPPLE (PEAK TO PEAK):

≤ 1% TYP

OUTPUT REGULATION (LINE/LOAD):

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

LINE REGULATION:

± 1% MAX AT FULL LOAD

TURN ON/ TURN OFF OVERSHOOT:

5% MAX 500μS MAX RECOVERY TIME FOR 25%
STEP LOAD

TURN-ON DELAY:

1 SEC TYPICAL

HOLD-UP TIME:

10 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

INRUSH CURRENT:

30 A TYPICAL 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 LINE AND NEUTRAL FUSING

SAFETY APPROVALS:

MEDICAL MODELS:

UL 60601-1, CUL TO 22.2 NO. 601, TUV EN60601, AND
cTUVus TO UL 60601 FOR CLASS I AND CLASS II;
CE FOR EMC, PSE TO J60950, PSE TO J60950

DIELECTRIC WITHSTAND VOLTAGE:

5656 VDC (4000 VAC) PRIMARY-SECONDARY
2121 VDC (1500 VAC) PRIMARY- GROUND



LEAKAGE CURRENT:

< 300uA at 264Vac INPUT VOLTAGE

LINE SURGE:

EN 61000-4-5 LEVEL 4

EMI:

COMPLIES WITH EN55022 AND EN55011, CLASS B AND FCC
PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD,
BOTH CONDUCTED AND RADIATED

CE MARK:

EN55011, Group 1, Class B, EN5022 Class B, EN55011, Group
1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002;
EN55024 / EN60601-1-2 / IEC 61000-4-6:2001 ; EN55024 /
EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 /
IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-
4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024
/ EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3
A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-
2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

MTBF:

GREATER THAN 200,000 HOURS AT 25°C AMBIENT
TEMPERATURE, AND NOMINAL LINE AT FULL LOAD
PER MIL-217.

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;

M: MEDICAL MODEL

1089: FAMILY DESIGNATION;

1003 TO 1948: POWER/INPUT VOLTAGE;

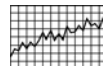
T: DESKTOP;

3: CLASS II WITH FUNCTIONAL EARTH (3 PRONGS)

2: CLASS II, DOUBLE INSULATED;

NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN ITS
DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS
NOT EXCEEDED.
2. OUTPUTS ARE AVAILABLE FROM 3.3V-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.



SEE APPENDIX "C" FOR ELECTRICAL
PERFORMANCE CURVES

OUTPUT VOLTAGE / CURRENT: CLASS I MODELS, PROTECTIVE GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1003-T3	+3.3	0 - 2.6	0-9
GTM21089-1305-1.0-T3	+4.0	0 - 2.6	0-10
GTM21089-1305-X.X-T3	+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-T3	+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-T3	+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-T3	+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-T3	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-T3	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-T3	+11.0	0 - 1.3	0-15

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**0-19 Watts, DeskTop Universal Input, Single Output
Family, Medical Class I & II**Part Number Ordering System (See Page 224)
Output Plug/Cord Options (See Page 189)**OUTPUT VOLTAGE / CURRENT:
CLASS I MODELS, FUNCTIONAL GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1512-X.X-T3	+12.0	0 - 1.25	0-15
GTM21089-1815-2.0-T3	+13.0	0 - 1.15	0-15
GTM21089-1815-1.2-T3	+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-T3	+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-T3	+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-T3	+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-T3	+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-T3	+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-T3	+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-T3	+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-T3	+24.0	0 - .75	0-18
GTM21089-1948-20.4-T3 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-T3 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

**OUTPUT VOLTAGE / CURRENT:
CLASS II MODELS, DOUBLE INSULATED**

GTM21089-1003-T2	+3.3	0 - 2.6	0-9
GTM21089-1505-1.0-T2	+4.0	0 - 2.6	0-9
GTM21089-1505-X.X-T2	+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-T2	+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-T2	+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-T2	+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-T2	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-T2	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-T2	+11.0	0 - 1.3	0-15
GTM21089-1512-X.X-T2	+12.0	0 - 1.25	0-15
GTM21089-1815-3.0-T2	+13.0	0 - 1.15	0-15
GTM21089-1815-2.0-T3	+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-T2	+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-T2	+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-T2	+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-T2	+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-T2	+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-T2	+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-T2	+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-T2	+24.0	0 - .75	0-18
GTM21089-1948-20.4-T3 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-T2 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

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INDOOR USE ONLY



ENCLOSURES

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



DESKTOP CLASS I: T3

SIZE:

86.5 x 47 x 32 ± 0.5 mm

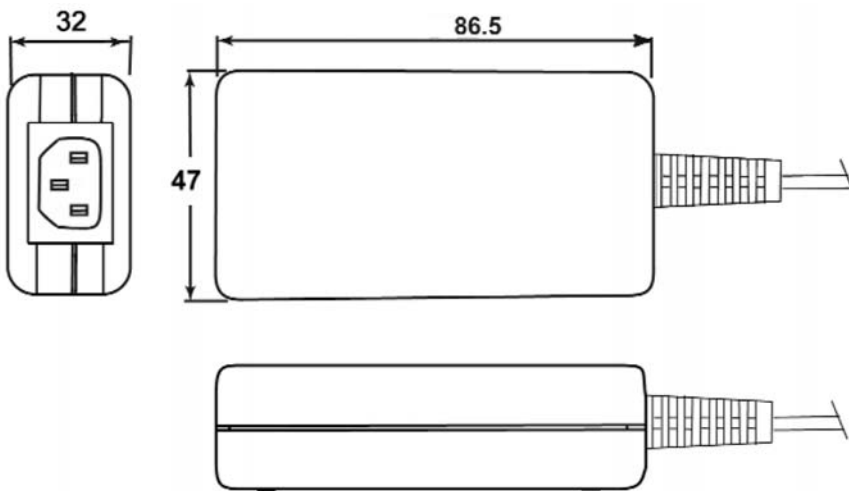
INPUT CONNECTOR:

CONFIGURATION:

CLASS I FE MODEL IEC60320 / C14, AC

POWER RECEPTACLE WITH

3 MALE PINS.



DESKTOP CLASS II: T2

SIZE:

86.5 x 47 x 32 ± 0.5 mm

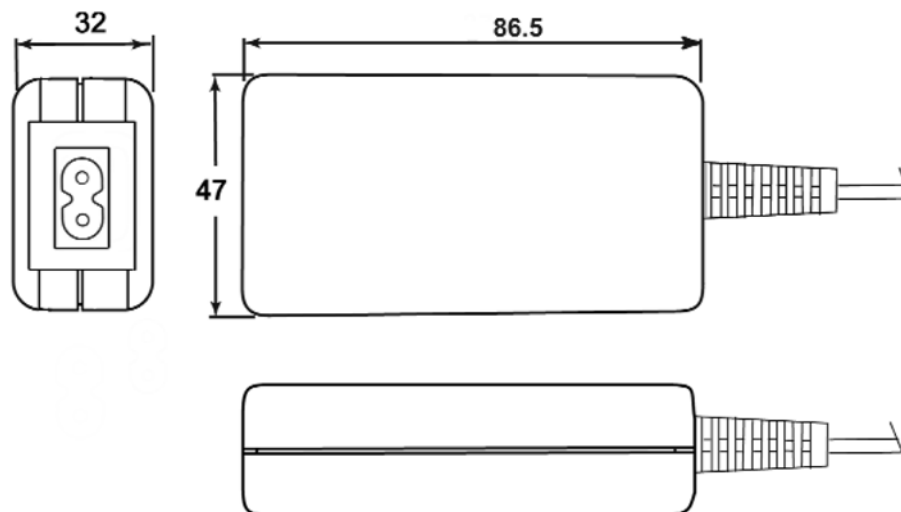
INPUT CONNECTOR:

CONFIGURATION: CLASS II FE MODEL

IEC60320 / C8, AC POWER RECEPTACLE

(NON-POLARIZED, SHAVER STYLE)

WITH 2 MALE PINS.



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