

ISO 9001:2000
REGISTERED**0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3")
Open Frame & PCB Mount, Universal Input, ITE, Class I & II**Part Number Ordering System (See Page 224)
Output Plug/Cord Options (See Page 189) Medical
Versions (See Page 36)FOR CLASS I MODELS WITH 'PE' CONNECTED, THE OUTPUT IS NOT FLOATING. OPTIONAL
MODELS WITH ISOLATED GROUND HAVE FLOATING OUTPUT.**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 MINIMUM LOAD REQUIRED

OUTPUT POWER (RATED):

19 WATTS MAX

OUTPUT RIPPLE (PEAK TO PEAK):

1% OF OUTPUT VOLTAGE, PEAK TO PEAK, TYPICAL

OUTPUT REGULATION (LINE/LOAD):

± 5% MEASURED AT THE OUTPUT CONNECTOR

LINE REGULATION:

+/- 1% TYPICAL MEASURED AT FULL LOAD

REMOTE SENSING (OPTION):PROVIDES REGULATION WITHIN + 1% OF NOMINAL VOLTAGE
OF MAIN OUTPUT AT LOAD LEVEL. FOR 3.3V SINGLE
OUTPUT, REMOTE IS REQUIRED.**TURN ON/ TURN OFF OVSHOOT:**5% MAXIMUM, 1ms TYPICAL RECOVERY TIME FOR 25%
STEP LOAD**TURN-ON DELAY:**

1 SEC MAX

HOLD-UP TIME:

10ms TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

INRUSH CURRENT:30A TYPICAL AT 115Vac INPUT AND 40A TYPICAL AT
230Vac INPUT**EFFICIENCY:**

75 % TYPICAL

SWITCHING FREQUENCY:

100KHZ TYPICAL, VARIES WITH LINE AND LOAD

OVER-VOLTAGE PROTECTION:OVER-VOLTAGE: VOLTAGE LIMITED TO LESS THAN 130%,
CROWBAR METHOD**OVER-CURRENT / SHORT CIRCUIT:**CONSTANT CURRENT METHOD MOMENTARY SHORT CIRCUIT
PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL
OF SHORT.**OTHER PROTECTION:**

INPUT FUSING; LINE FUSING

SAFETY APPROVALS:UL 60950, CUL TO 22.2 NO.60950, TUV TO EN60950 AND
cTUVus TO UL 60950 FOR CLASS I AND CLASS II; CE FOR
EMC, CB TO IEC60950 (ALL NATIONAL DEVIATION)**DIELECTRIC WITHSTAND VOLTAGE:**5656VDC (4000 VAC) PRIMARY-SECONDARY;
2121 VDC (1500 VAC) PRIMARY- GROUND**LEAKAGE CURRENT:**

< 300 µA AT 264 VAC INPUT VOLTAGE

LINE SURGE:

EN 61000-4-5 LEVEL 4

EMI:COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS
B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED
AND RADIATED EMI**CE MARK:**TESTED TO COMPLY WITH EN61000-3-2 EN61000-3 AND
EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL),
EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6,
EN61000-4-11 LEVEL 4..**MTBF:**GREATER THAN 200,000 HOURS AT 25° C AMBIENT
TEMPERATURE

NOMINAL LINE AND FULL LOAD PER MIL-217 STANDARD

OPERATING TEMPERATURE:

0° C TO 40° C AMBIENT TEMPERATURE

STORAGE TEMPERATURE:

-40° C TO 80° C

HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

MODEL NUMBER CODE:

GT-2: INTERNAL CODE;

-: ITE MODEL, UL 60950

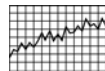
1096: FAMILY DESIGNATION, 10-20W OPEN FRAME

1003 TO 1948: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

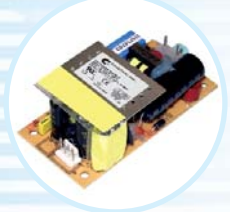
-: UNITS ENDING WITH "W" ARE CLASS II UNITS, UNITS ENDING
WITHOUT "W" ARE CLASS I UNITS.**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S
DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS
NOT EXCEEDED.
2. SINGLE OUTPUT 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*FROM 24.1 V TO 48 V, AVAILABLE ONLY WITH TUV AND CB
APPROVALS.**OUTPUT VOLTAGE / CURRENT:****CLASS I MODELS, PROTECTIVE GROUND**

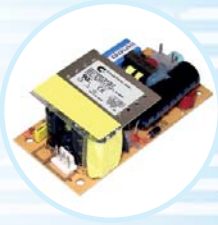
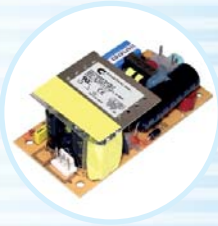
MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21096-1003-F(B)(W)	+3.3	0 - 2.6	0-9
GT-21096-1505-1.0-F(B)(W)	+4.0	0 - 2.6	0-10
GT-21096-1505-X.X-F(B)(W)	+5.0	0 - 2.6	0-13
GT-21096-1506-X.X-F(B)(W)	+6.0	0 - 2.5	0-15
GT-21096-1509-2.0-F(B)(W)	+7.0	0 - 2.0	0-15
GT-21096-1509-1.0-F(B)(W)	+8.0	0 - 1.8	0-15

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Medical Versions (See Page 36)



INDOOR USE ONLY
OUTPUT VOLTAGE / CURRENT:
CLASS I MODELS, PROTECTIVE GROUND



MODEL NUMBER		OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21096-1509-X.X-F(B)		+9.0	0 - 1.7	0-15
GT-21096-1512-2.0-F(B)		+10.0	0 - 1.5	0-15
GT-21096-1512-1.0-F(B)		+11.0	0 - 1.3	0-15
GT-21096-1512-X.X-F(B)		+12.0	0 - 1.25	0-15
GT-21096-1815-2.0--T3-F(B)		+13.0	0 - 1.15	0-15
GT-21096-1815-1.2-F(B)		+13.8	0 - 1.09	0-15
GT-21096-1815-1.0-F(B)		+14.0	0 - 1.07	0-15
GT-21096-1815-X.X-F(B))		+15.0	0 - 1.2	0-18
GT-21096-1818-2.0-F(B))		+16.0	0 - 1.2	0-18
GT-21096-1818-1.0-F(B)		+17.0	0 - 1.0	0-18
GT-21096-1818-X.X-F(B)		+18.0	0 - 1.0	0-18
GT-21096-1824-5.0-F(B)		+19.0	0 - 0.95	0-18
GT-21096-1824-4.0-F(B)		+20.0	0 - 0.90	0-18
GT-21096-1824-X.X-F(B)		+24.0	0 - .75	0-18
GT-21096-1948-20.4-F(B)	(TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21096-1940-18.0-F(B)	(TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21096-1948-12.0-F(B)	(TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21096-1948-X.X-F(B)	(TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

OUTPUT VOLTAGE / CURRENT:
CLASS II MODELS, DOUBLE INSULATED

GT-21096-1003-F(B)(W)		+3.3	0 - 2.6	0-9
GT-21096-1505-1.0-F(B)W		+4.0	0 - 2.6	0-9
GT-21096-1505-X.X-F(B)W		+5.0	0 - 2.6	0-13
GT-21096-1506-X.X-F(B)W		+6.0	0 - 2.5	0-15
GT-21096-1509-2.0-F(B)W		+7.0	0 - 2.0	0-15
GT-21096-1509-1.0-F(B)W		+8.0	0 - 1.8	0-15
GT-21096-1509-X.X-F(B)W		+9.0	0 - 1.7	0-15
GT-21096-1512-2.0-F(B)W		+10.0	0 - 1.5	0-15
GT-21096-1512-1.0-F(B)W		+11.0	0 - 1.3	0-15
GT-21096-1512-X.X-F(B)W		+12.0	0 - 1.25	0-15
GT-21096-1815-2.0-T3-F(B)W		+13.0	0 - 1.15	0-15
GT-21096-1815-1.2-F(B)W		+13.8	0 - 1.09	0-15
GT-21096-1815-1.0-F(B)W		+14.0	0 - 1.07	0-15
GT-21096-1815-X.X-F(B)W		+15.0	0 - 1.2	0-18
GT-21096-1818-2.0-F(B)W		+16.0	0 - 1.2	0-18
GT-21096-1818-1.0-F(B)W		+17.0	0 - 1.0	0-18
GT-21096-1818-X.X-F(B)W		+18.0	0 - 1.0	0-18
GT-21096-1824-5.0-F(B)W		+19.0	0 - 0.95	0-18
GT-21096-1824-4.0-F(B)W		+20.0	0 - 0.90	0-18
GT-21096-1824-X.X-F(B)W		+24.0	0 - .75	0-18
GT-21096-1948-20.4-F(B)W	(TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21096-1940-18.0-F(B)W	(TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21096-1948-12.0-F(B)W	(TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21096-1948-X.X-F(B)W	(TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19



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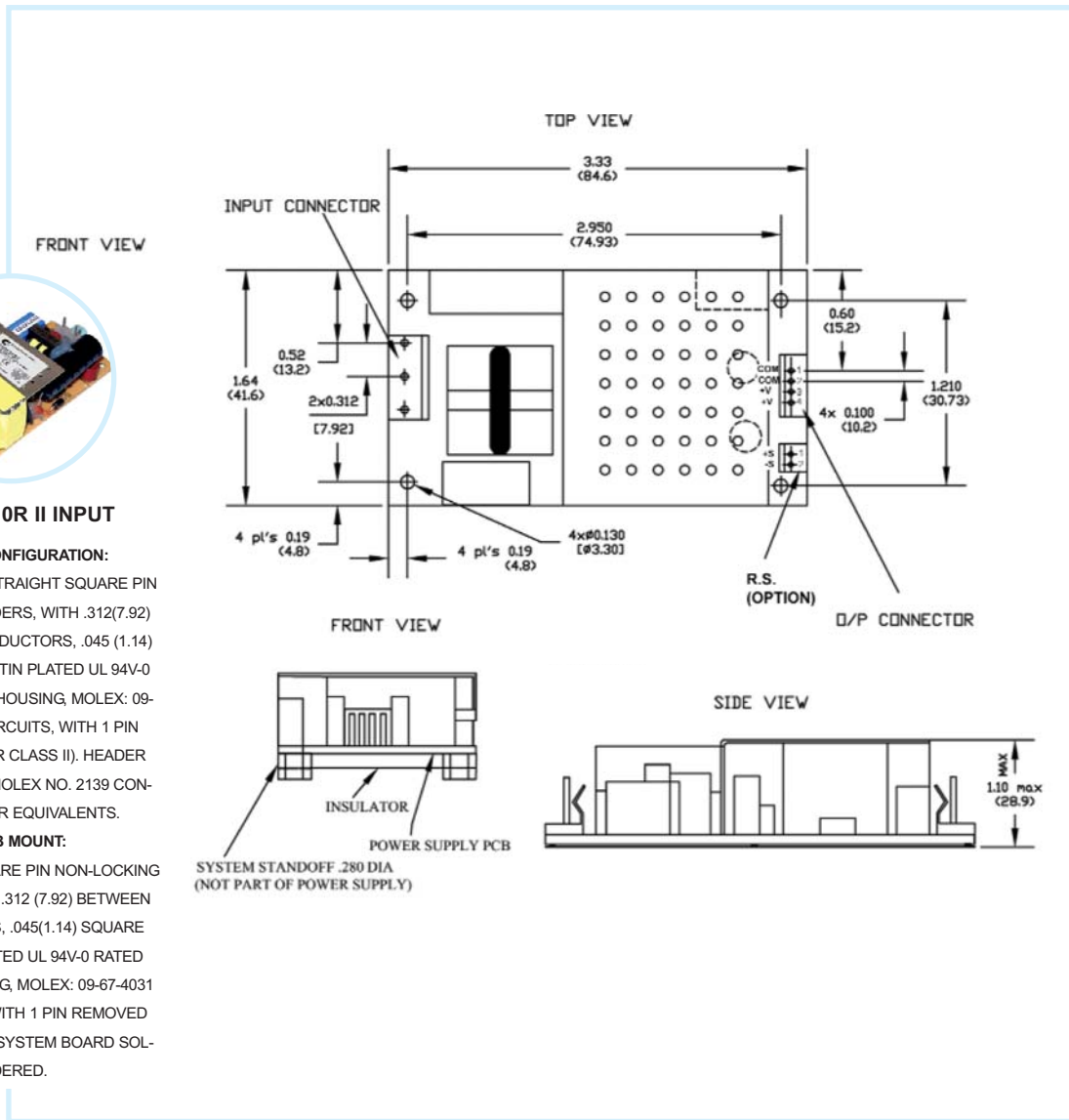
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MECHANICAL CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOWN.
OPTION: PCB MOUNT, WITH IN / OUT CONNECTORS HEADERS PINS ON PCB SOLDER SIDE.



CLASS I OR II INPUT

INPUT CONFIGURATION:

OPEN FRAME STRAIGHT SQUARE PIN LOCKING HEADERS, WITH .312(7.92) BETWEEN CONDUCTORS, .045 (1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-65-2038 (3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II). HEADER MATES WITH MOLEX NO. 2139 CONNECTOR OR EQUIVALENTS.

PCB MOUNT:

STRAIGHT SQUARE PIN NON-LOCKING HEADER, WITH .312 (7.92) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-67-4031 (3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II), SYSTEM BOARD SOLDERED.

OUTPUT CONNECTOR:

OPEN FRAME: 4 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 22-28-0040 UL 94V-0 RATED NYLON HOUSING; .100 (2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2695 CONNECTORS OR EQUIVALENT.

PCB MOUNT: 4 PINS STRAIGHT SQUARE NON-LOCKING HEADER WITH .100(2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN MATED UL 94V-0 RATED NYLON HOUSING, MOLEX 22-03-2041, SYSTEM BOARD SOLDERED.

REMOTE SENSE (OPTION): 2 PINS STRAIGHT HEADER WITH LOCKING RAMP, WITH UL 94V-0 RATED NYLON BASE, .100(2.54) PITCH BETWEEN CONDUCTORS, .025 (0.64) SQUARE PINS, TIN PLATED MOLEX: 22- 28-0020, HEADER MATES WITH MOLEX # 2695 CONNECTOR OR EQUIVALENT.

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