



ISO 9001
REGISTERED



Universal Desk-Top Single-Output Models up to 100 Watts

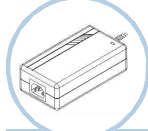
Part Number Ordering System (See Page 33)
Input/Output Plug/Cord Options (See Page 22)



FOR INDOOR USE ONLY



UNIVERSAL INPUT: 90~264VAC, 47~63 HZ



GTM21089-T3 86.5L x 47W x 32H
GTM21097 119L x 60W x 32H
GTM21126 119L x 60W x 32H
GTM21131 141.5L x 76W x 43H
GTM3S100P 141.5L x 76W x 43H

CLASS I (PROTECTIVE GROUND) SINGLE OUTPUT MODELS

MODEL NUMBER	**OUTPUT VOLTAGE	* OUTPUT CURRENT	***RATED OUTPUT POWER
GTM21089-1303-T3-X.X	3.3 V	0 - 2.6 A	8.5 WATTS
GTM21097-2003-X.X	3.3 V	0 - 6.0 A	20 WATTS
GTM21131-3303-X.X	3.3 V	0 - 8.0 A	27 WATTS
GTM3S100P3.3D-X.X	3.3 V	0 - 16.0 A	53 WATTS
GTM21089-1305-T3-X.X	5.0 V	0 - 2.6 A	13 WATTS
GTM21097-3005-X.X	5.0 V	0 - 6.0 A	30 WATTS
GTM21131-4005-X.X	5.0 V	0 - 8.0 A	40 WATTS
GTM3S100P5D-X.X	5.0 V	0 - 16.0 A	80 WATTS
GTM21089-1506-T3-X.X	6.0 V	0 - 2.5 A	15 WATTS
GTM21089-1509-T3-X.X	9.0 V	0 - 1.7 A	15.3 WATTS
GTM21097-4509-X.X	9.0 V	0 - 5.0 A	45 WATTS
GTM21131-5409-X.X	9.0 V	0 - 6.0 A	54 WATTS
GTM3S100P9D-X.X	9.0 V	0 - 10 A	90 WATTS
GTM21089-1512-T3-X.X	12.0 V	0 - 1.25 A	15 WATTS
GTM21097-5012-X.X	12.0 V	0 - 4.17 A	50 WATTS
GTM21126-6012-X.X	12.0 V	0 - 5.0 A	60 WATTS
GTM21131-7212-X.X	12.0 V	0 - 6.0 A	72 WATTS
GTM3S100P12D-X.X	12.0 V	0 - 8.2 A	100 WATTS
GTM21089-1815-T3-X.X	15.0 V	0 - 1.2 A	18 WATTS
GTM21097-5015-X.X	15.0 V	0 - 3.3 A	50 WATTS
GTM21126-6015-X.X	15.0 V	0 - 4.0 A	60 WATTS
GTM21131-7215-X.X	15.0 V	0 - 4.8 A	72 WATTS
GTM3S100P15D-X.X	15.0 V	0 - 6.7 A	100 WATTS
GTM21089-1818-T3-X.X	18.0 V	0 - 1.0 A	18 WATTS
GTM21097-5018-X.X	18.0 V	0 - 2.8 A	50 WATTS
GTM21126-6018-X.X	18.0 V	0 - 3.3 A	60 WATTS
GTM21131-7218-X.X	18.0 V	0 - 4.0 A	72 WATTS
GTM3S100P18D-X.X	18.0 V	0 - 5.6 A	100 WATTS
GTM21089-1824-T3-X.X	24.0 V	0 - 0.75 A	18 WATTS
GTM21097-5024-X.X	24.0 V	0 - 2.1 A	50 WATTS
GTM21126-6024-X.X	24.0 V	0 - 2.5 A	60 WATTS
GTM21131-7224-X.X	24.0 V	0 - 3.0 A	72 WATTS
GTM3S100P24D-X.X	24.0 V	0 - 4.2 A	100 WATTS
GTM21089-1948-T3-X.X	48.0 V	0 - 0.4 A	19 WATTS
GTM21097-5048-X.X	48.0 V	0 - 1.1 A	50 WATTS
GTM21131-7248-X.X	48.0 V	0 - 1.5 A	72 WATTS
GTM3S100P48D-X.X	48.0 V	0 - 2.1 A	100 WATTS



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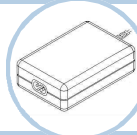


FOR INDOOR USE ONLY

UNIVERSAL INPUT: 90~264VAC, 47~63 HZ

CLASS II (DOUBLE-INSULATED) SINGLE OUTPUT MODELS

GTM-21089-T2	86.5L x 47W x 32H
GTM-21148	103L x 50W x 32H
GTM-22011	99L x 63W x 30H
GTM-3S100P-W	141.5L x 76W x 43H



MODEL NUMBER	**OUTPUT VOLTAGE	* OUTPUT CURRENT	***RATED OUTPUT POWER
GTM21089-1303-T2-X.X	3.3 V	0 - 2.6 A	8.5 WATTS
GTM21148-1703-X.X	3.3 V	0 - 5.0 A	17 WATTS
GTM22011-2203-X.X	3.3 V	0 - 6.5 A	22 WATTS
GTM3S100P3.3D-X.XW	3.3 V	0 - 16.0 A	53 WATTS
GTM21089-1305-T2-X.X	5.0 V	0 - 2.6 A	13 WATTS
GTM21148-2505-X.X	5.0 V	0 - 5.0 A	25 WATTS
GTM22011-3305-X.X	5.0 V	0 - 6.5 A	33 WATTS
GTM3S100P5D-X.XW	5.0 V	0 - 16.0 A	80 WATTS
GTM21089-1506-T2-X.X	6.0 V	0 - 2.5 A	15 WATTS
GTM21089-1509-T2-X.X	9.0 V	0 - 1.7 A	15.3 WATTS
GTM21148-2709-X.X	9.0 V	0 - 3.0 A	27 WATTS
GTM22011-5009-X.X	9.0 V	0 - 5.5 A	50 WATTS
GTM3S100P9D-X.XW	9.0 V	0 - 10.0 A	90 WATTS
GTM21089-1512-T2-X.X	12.0 V	0 - 1.25 A	15 WATTS
GTM21148-3012-X.X	12.0 V	0 - 2.5 A	30 WATTS
GTM22011-6012-X.X	12.0 V	0 - 5.0 A	60 WATTS
GTM3S100P12D-X.XW	12.0 V	0 - 8.2 A	100 WATTS
GTM21089-1815-T2-X.X	15.0 V	0 - 1.2 A	18 WATTS
GTM21148-3015-X.X	15.0 V	0 - 2.0 A	30 WATTS
GTM22011-6015-X.X	15.0 V	0 - 4.0 A	60 WATTS
GTM3S100P15D-X.XW	15.0 V	0 - 6.7 A	100 WATTS
GTM21089-1818-T2-X.X	18.0 V	0 - 1.0 A	18 WATTS
GTM21148-3018-X.X	18.0 V	0 - 1.7 A	30 WATTS
GTM22011-6018-X.X	18.0 V	0 - 3.3 A	60 WATTS
GTM3S100P18D-X.XW	18.0 V	0 - 5.6 A	100 WATTS
GTM21089-1824-T2-X.X	24.0 V	0 - 0.75 A	18 WATTS
GTM21148-3024-X.X	24.0 V	0 - 1.25 A	30 WATTS
GTM22011-6024-X.X	24.0 V	0 - 2.5 A	60 WATTS
GTM3S100P24D-X.XW	24.0 V	0 - 4.2 A	100 WATTS
GTM21089-1948-T2-X.X	48.0 V	0 - 0.4 A	19 WATTS
GTM21148-3048-X.X	48.0 V	0 - 0.63 A	30 WATTS
GTM22011-6048-X.X	48.0 V	0 - 1.25 A	60 WATTS
GTM3S100P48D-X.XW	48.0 V	0 - 2.1 A	100 WATTS

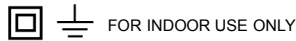


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Desk-Top and Wall Plug-in Single and Multi-Output Models, up to 100 Watt

Part Number Ordering System (See Page 33)
Input/Output Plug/Cord Options (See Page 22)



GENERAL SPECIFICATIONS

Electrical Specifications:

Input Voltage/ Line Frequency:

Universal 90VAC to 264VAC, 47Hz-63Hz, for All Models.

Input Current:

Less than 2 Amps for 100 Watt Models

Output Voltage:

Single-Output Units: 3.0V up to 48V in 0.1V increments. Multi-Output Units: Dual, Triple and Triple-Low for 100W Series. See Rating Table.

Rated Output Power:

See Rating Table. Watts rating for informational purposes, only. May or may not be provided on label.

Output Current:

Single-Output Units: No Load to Full Load, No minimum load required; Multi-Output Units: 10% Min. Load required on Main Output to maintain specified regulation. Each output current can vary within its designated range, as long as the rated output power is not exceeded.

Output Ripple & Noise (Peak to Peak):

1% or 100mVmax., whichever is smaller; except for +3.3V out. Models which are 50mVmax; 20MHz measurement bandwidth.

Output Regulation (Line/Load):

Single-Output Units: $\pm 5\%$ (including cord), measured at the end of output connector; Multi-Output Units: $\pm 5\%$ for Main Output, $\pm 5\%$ for Second Output and $\pm 10\%$ for Third Output (including cord) measured at the end of output connector; for selection please refer to Adaptor Output Plug/Cord options.

Remote Sense (Option):

Provides Regulation within $\pm 2\%$ of nominal voltage of Main Output. For 3.3V Single-Output or 3.3V Main of Multi-Output Models, Remote Sensing is required.

Temperature Coefficient:

$\pm 0.04\%/^{\circ}\text{C}$ typical.

Turn-On/ Turn-Off Overshoot:

5%max. for All Models.

Transient response:

0.5msec. for 50% load change, typical.

Turn-On Delay:

0.5 seconds maximum for All Models.

Hold-Up Time:

20msec.min. at nominal input line (120VAC) for All Models.

Inrush Current:

Less than 20Amps.peak for North American/Japan Models; Less than 40Amps.peak for Euro./U.K./Australia and Universal Models at Cold Start.

Efficiency:

75% typical at Full Load; 85% typ. for 100 Watts Series.

Topology:

Off-Line Isolated Flyback Converter.

Switching Frequency:

100KHz typical.

Over-Voltage Protection:

Basic Protection limits the Output Voltage below 130% of the nominal voltage. Other Options: A) Shut down without latching. The unit will shut down when over-voltage protection is activated at 130% of the nominal value, and automatically recovers when the fault is removed. B) Shut down and latched. The unit will shut down when over-voltage protection is activated at 130% of the nominal value, and remains shutdown even after fault is removed. The unit can only be reset by cycling the input power.

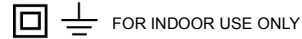
Over-Current/ Short-Circuit Protection:

Hiccup, Automatic Recovery for All Models.

Other Protections:

Input Fusing, Thermal Shutdown.



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REGISTERED**Desk-Top and Wall Plug-In, Single and Multi-Output Models, up to 100 Watts.**Part Number Ordering System (See Page 33)
Input/Output Plug/Cord Options (See Page 22)**Safety Approvals:****Medical Models Class I and Class II (BF Type):**

Recognized (UR) to UL2601-1, C-UR to CSA-C22.2#601,VDE and TUV to EN60601.

ITE Models Basic and Reinforced Insulation:

Listed (UL) to UL60950, C-UL to CSA-C22.2 #950, VDE and TUV to EN60950

Dielectric Withstand:4000VAC, 5650VDC Input-Output (Class II, Double-Insulated) or 1500VAC, 2150VDC Input-Output (Class I, Grounded Applications);
1500VAC, 2150VDC Input-Ground/ 500VAC, 705VDC Output-Ground (Option).**Spacing:**

8mm primary - secondary.

Leakage and Patient Auxiliary Current:

Less than 0.100mA.

Line Surge:

EN61000-4-5 Level 4.

EMI:

Complies with EN55022, EN55011 Class B and FCC Part 15 Class B, when tested with a resistive load, both conducted and radiated.

CE Mark:

Tested to comply with EN50082-1 including EN61000-4-2, EN61000-3-2 (PFC functional module for 100W series), EN61000-3-3, 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 Calculated, Stress Analysis, Ground Fix Environment.

Operating Temperature:

0°C to 40°C, 50% Output Power at 70°C ambient, linearly derated.

Humidity:

0% to 95% Relative Humidity, Non-Condensing.

Storage Temperature:

-40°C to 80°C.

Altitude:

0 - 10,000 feet.

Cooling:

Thermal Conduction

Mechanical Specifications:**Enclosure:**

Upper/Lower Housing, High Impact Plastic, 94V0 Polycarbonate, Non-Vented, Color Black. For Case Dimensions please refer to Rating Table.

Note: For Japanese models add "J" after GT-2,4 of the Model Number.

Input Plug Configuration:

Please refer to Accessories, Output Plug/Cord Options.

Class II Models Standard:

Desk-Top Units: EN60 320/C18/2 Pins or EN60 320/C8 (non-polarized shaver) AC Power Receptacle with Male Prongs, Color Black; Wall Plug-In Units: North America., 2 Prong NEMA 1-15P, Blade Code:01. Europe, 2 Prong EUROPLUG, Blade Code: 07. British (U.K.), 3 Prong/ 1 insulated, Blade Code: 09X. Australia, 2 Prong, Blade Code: 05.

Class I Models Standard:

Desk-Top Units: EN60 320/C14/3 Pins AC Power Receptacle with male Prongs, Color Black; Wall Plug-In Units: North America, 3 Prong NEMA 5-15P, Blade Code: 02. Europe, 2 Prong w/Ground, SCHUKO, Blade Code: 08. British (U.K.), 3 Prong, Blade Code: 09X. Australia, 3 Prong, Blade Code: 06A.

Note: Ground Wire, 18AWG Stranded Green with Yellow Stripe is connected between ground lug and common of Y Safety Capacitors, Internally.

Output Cord and Connector:

Standard, 2 conductors, 18AWG stranded wire, flat UL VW-1 rated SPT-1 cord type, color black, length of cord: 72 ± 2 in. Cord is measured from the housing to the end of overmold of connector.. Cable is to be marked with wire gauge, and all applicable ratings and safety approvals.

Standard Connector:

Straight female barrel 5.5x2.5x11mm with Center Positive.

For other output cords please refer to Accessories, Output Plug/Cord Options. Custom output cords, connectors and shielding are available.

