

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

GTM9X1001P-WWWVV-T2A

Information

Model Number	GTM9X1001P-WWWVV-T2A
Description	GTM9X1001P-WWWVV-T2A, ICT / ITE / Medical Power Supply/Class 2/Household Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V $\sim$ @ 50-60Hz + 115V $\sim$ @ 400Hz, IEC 60320/C18 AC Inlet connector, Class II, Non-Earth Ground, Output Rating: 100 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: VCCI; PSE; Double Insulation; China RoHS; RoHS; Ukraine; WEEE; UKCA; Morocco; PSE; PSE; CB 60601-1; cMETus; CE; CB 60601-1 2MOPP;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM9X1001P/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a000c00000QCxcTEAT
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a000c00000QCxcTEAT
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

MODEL PARAMETERS

Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~ @ 50-60Hz + 115V~ @ 400Hz
I/P Amps (A)	1.5A
Wattage (W)	100.0
Vout Range (V)	12-54
Efficiency Level	
Ingress Protection	IP54
Size (mm)	149.4 x 62.6 x 34

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

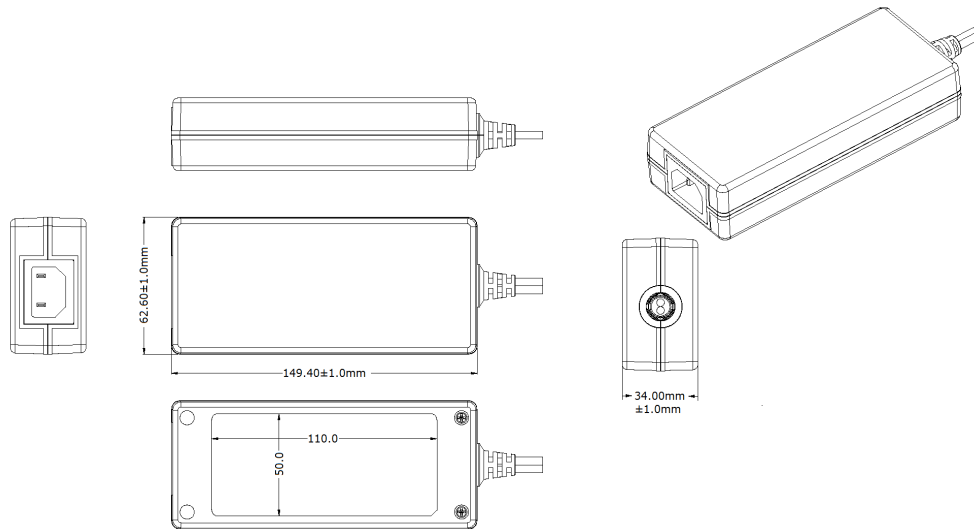
<https://www.globtek.com/ds/EqUvf6Sz694/wYpHLycCa4g.html#datasheet>

Delivering leading edge, innovative power solutions for more than 30 years....

Model: GTM9X1001P-WWWVV-T2A

May 9, 2025

ENCLOSURE



PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/EqUvf6Sz694/wYpHLycCa4g.html#datasheet>

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM9X1001P-10012-T2A	12 V	8.33	99.96	RFQ
GTM9X1001P-10015-T2A	15 V	6.666	99.99	RFQ
GTM9X1001P-6015-T2A	15 V	4	60.00	RFQ
GTM9X1001P-10018-T2A	18 V	5.55	99.90	RFQ
GTM9X1001P-10019-T2A	19 V	5.26	99.94	RFQ
GTM9X1001P-10024-T2A	24 V	4.16	99.84	RFQ
GTM9X1001P-10030-T2A	30 V	3.33	99.90	RFQ
GTM9X1001P-10036-T2A	36 V	2.77	99.72	RFQ
GTM9X1001P-10048-T2A	48 V	2.08	99.84	RFQ
GTM9X1001P-10054-T2A	54 V	1.85	99.90	RFQ

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/EqUvf6Sz694/wYpHLycCa4g.html#datasheet>

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

SPECIFICATIONS

Features

- Aerospace qualified (per RTCA/DO-160G)
- IEC60601-1-11 "Home Healthcare" certified @ 80VAC
- Extremely low input current distortion
- Enhanced immunity capability
- Exceptionally low inrush current
- Low leakage current @ 400Hz input
- Shock & vibration in accordance with IEC60601-1-12 (EMS) & DO-160G

Input

Input Range (Terrestrial):	100 - 240VAC @ 50 - 60Hz (nameplate, nominal) 80 - 264VAC @ 47- 63Hz (rated)
Input Range (Aviation):	115VAC @ 400Hz (nameplate, nominal) 100-122VAC @ 360 - 440Hz (rated)
No Load Input Power:	< 150mW @ 115VAC / 230VAC
Inrush Current:	20A max. @ 264VAC Meets DO-160G, Section 16.7.5.2 for A(CF) equipment
Line Current Distortion:	Meets DO-160G, Section 16.7.1.2 for A(CF) equipment, $\geq 60W$ load
Power Factor (PF):	> 0.99 @ 115V/60Hz, > 0.95 @ 230V/50Hz, > 0.95 @ 115V/400Hz (50 - 100W load) Meets DO-160G, Section 16.7.8.2 for A(CF) equipment
Efficiency:	> 87% @ 115VAC, 4-pt. average > 88% @ 230VAC, 4-pt. average

Output

Turn-on Delay:	< 2 seconds
Output Regulation	+2% / -5% max. (measured at the output connector)
Line Regulation:	± 0.2 % max. (measured at the output connector)
Ripple:	1% max. (using a 10 μ F low-ESR electrolytic cap + 0.1 μ F ceramic cap, measured @ 20MHz BW, at the output connector)
Transient Response (Step Load):	10% max. deviation, 2ms max. recovery time (100W load step)
Transient Response (Load Dump):	5% max. deviation, 100ms max. recovery time (100W load dump)
Hold-up Time:	20ms min. (80VAC and full load)

Protections

Input Protection:	MOV transient suppressor, input line fusing
Over-Voltage Protection:	110 - 130%, Latching, cycle AC to reset

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/Equvf6Sz694/wYpHLycCa4g.html#datasheet>

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

Over-Current Protection:	115 - 150%, Auto-recovery
Short-Circuit Protection:	Auto-recovery
Over-Temperature Protection:	Auto-recovery

Environmental

MTBF:	> 1,500,000 hours @ 25°C ambient (Telcordia SR-332, Issue 3) > 750,000 hours @ 50°C ambient (Telcordia SR-332, Issue 3)
Operating Temperature:	-10°C to 40°C (100W) Check derating curve for T > 40°C.
Storage Temperature:	-40°C to 80°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude	5000m
Cooling:	Natural convection
Shock:	End use handling: Half-sine, <3ms duration, 1.65m/s, 3 shocks per face Transportation simulation: Trapezoid, 60G acceleration, 5.75m/sec, 3 shocks per face General shock: Half-sine, 100G acceleration, 6ms duration, 3 shocks per face
Vibration:	IEC60601-1-12, Section 10.1.3, Clause B DO-160G, Section 8, Procedure 8.8, Category U, Zone 1A
Bump:	EN1789, Clause 6.4.1
Drop:	EN1789, Clause 6.4.2
Ingress Protection:	IP54
RoHS:	Complies with EU 2015/863 and China SJ/T 11363-2006

Safety

Compliant Standards:	General medical: IEC60601-1 Home healthcare: IEC60601-1-11 (2-conductor input models only) Emergency medical services (EMS): IEC60601-1-12 (2-conductor input models only) Information & communications technologies (ICT): IEC62368-1
Dielectric Withstand Voltage:	4000VAC or 5656VDC, primary-to-secondary 1768VAC or 2500VDC, primary-to-earth (3-conductor input models only) 1500VAC or 2121VDC, secondary-to-earth (F2 configuration only) 10mA, 1 minute
Output Touch Current:	2-conductor input : NC: 40µA max. (60Hz), 80µA max. (400Hz) SFC: 60µA max. (60Hz), 150µA max. (400Hz) 3-conductor input: NC: 10µA max. (60Hz), 30µA max. (400Hz) SFC: 45µA max. (60Hz), 110µA max. (400Hz)
Earth Leakage Current	2-conductor input: N/A 3-conductor input: 200µA max.
Means of Protection (Primary-to-Secondary):	2 x MOPP

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/Equvf6Sz694/wYpHLycCa4g.html#datasheet>

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

Output Isolation Options:	2-conductor input: Class II 3-conductor input: Earthed output (Class I) or functionally earthed ("F2")
---------------------------	---

EMC

Compliant Standards:	Medical: EN 60601-1-2 Airborne Equipment: RTCA DO-160G Emissions: EN55032, EN61000-6-3, EN61000-6-4 Immunity: EN55024, EN61000-6-1, EN61000-6-2
Conducted Emissions:	EN55032/CISPR11, Class B DO-160G, Section 21.4, Category M (measured with resistive load)
Radiated Emissions:	EN55032/CISPR11, Class B DO-160G, Section 21.5, Category M (measured with resistive load)
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A Meets DO-160G, Section 16.7.1.2 for A(CF) equipment
Voltage Fluctuations/Flicker:	EN61000-3-3
Electrostatic Discharge (ESD) Immunity:	EN61000-4-2, 10KV contact discharge, 18KV air discharge, Criterion A DO-160G, Section 25.5, Category A
Radiated RF Immunity:	EN61000-4-3, 20V/m @ 800MHz - 2.7GHz, 80% 1KHz AM, 80% 5Hz AM, Criterion A DO-160G, Section 20.5, Category R
EFT/Burst Immunity:	EN61000-4-4, 4KV/100KHz., Criterion A
Line Surge Immunity:	EN61000-4-5, 2KV differential-mode, 4KV common-mode, Criterion A
Conducted RF Immunity:	EN61000-4-6, 3VRMS & 6VRMS, 80% 1KHz AM, Criterion A DO-160G, Section 20.4, Category R
Power Frequency Magnetic Field Immunity:	EN61000-4-8, 30A/m, Criterion A DO-160G, Section 19.3, Category ZC
Voltage Dip Immunity:	EN61000-4-11, 20ms 100% dip @ Criterion A, 500ms 30% dip @ Criterion B, 5sec 100% dip @ Criterion B DO-160G for A(CF) equipment

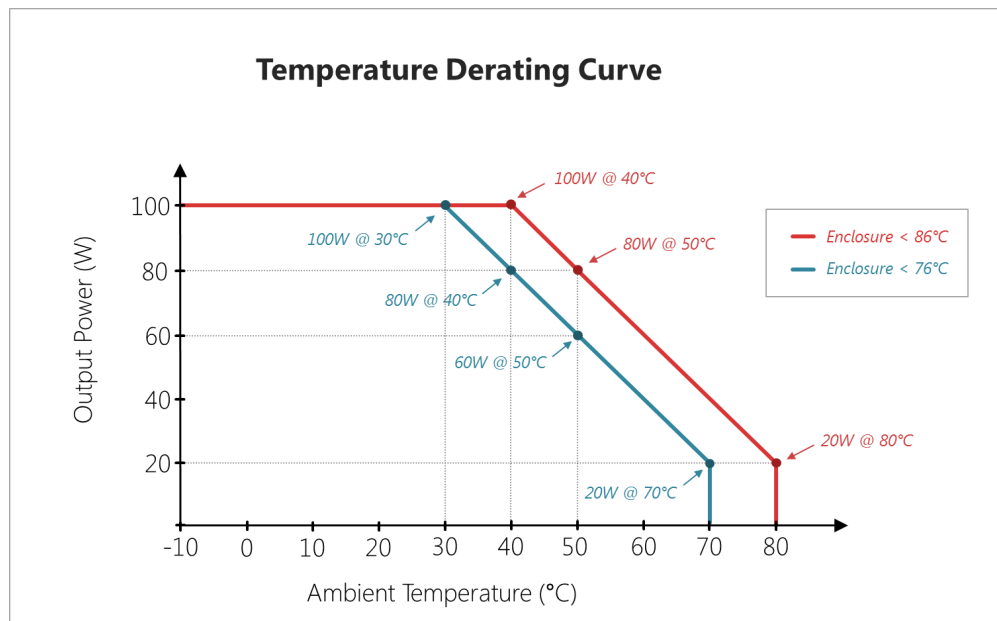
Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Markings:	Adhesive backed label or laser engraving

Model: GTM9X1001P-WWWVV-T2A

May 9, 2025

DERATING CURVE



Delivering leading edge, innovative power solutions for more than 30 years....

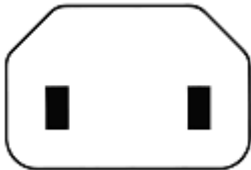
Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

INPUT CONFIGURATION

Description IEC 60320/C18 AC Inlet connector, Class II, Non-Earth Ground

Mates with IEC 60320/C17 Plug



Standard International IEC 320/C17 Cordsets

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. Please contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

Part Number/ Link	Country	Plug	Termination	Length (mm)	Length (Ft)
209A4062M071(R)	Argentina (Type I)	IRAM 2063	IEC320/C17	2000	6.6
5014112M071A(R)	Australia (Type I)	AS3112	IEC 320/C17	2000	6
204B4062M071(R)	Brazil (Type N)	NRR 14136	IEC320/C17	2000	6.6
4533502M071(R)	China (Type A)	GB 2099.1	IEC320/C17	2000	6.6
2074232M071C(R)	Europe (2.5A, Type C)	CEE 7/7	IEC 320/C17	2000	6.6
489C4232M071A(R)	Europe (10A)	CEE 7/17	IEC320/C17	2000	6.6
208A41111M8071A(R)	India (Type D)	IS 1293	IEC 320/C17	1800	6
451J3322M071A	Japan (Type A)	JIS 8303	IEC320/C17	2000	6.6
401P1086F071A(R)	North America (Type A)	NEMA 1-15P	IEC 320/C17	1828	6
401P1219F71A	North America (Type A)	NEMA 1-15P	IEC 320/C17	2743	9
4033321M8071(R)	Taiwan (Type A)	CNS10917	IEC 320/C17	1800	6
6104232M071A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363 (Fuse 3A)	IEC 320/C17	2000	6.6
6303742M571A(R)	Thailand (Type C)	TIS 166-2549	IEC 320/C17	2500	8

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/EqUvf6Sz694/wYpHLycCa4g.html#datasheet>

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



C Type (Coaxial
5.5x2.1mm plug)



K Type (Coaxial
3.5x1.3mm plug)



LL Type (5.5x2.5mm
Locking 760k type)



CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



MSB Type (Micro
USB)



USBC Type (USB
Type C)



Inquire for custom
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

Approvals

Logo	Description
No Logo Applicable	CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V d
No Logo Applicable	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:20
	CE Certification Class II CE Mark: tested to comply with EN 55032.2015+A1.2020 EN 61000-3-2 61000-3-3.2013 +A1:2019 + A2:2021 EN 55025
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%
	
	Indoor Use Only - Mark is on the label or Molded in the case
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032 less]. Please reference the following website for guidelines on PSE regu https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[DC15?30V]. Please reference the following w regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30?60V]. Please reference the following w regulations: https://www.globtek.com/r2/Szj4Vb
 Image Not Available This image is not available because: • You don't have the privileges to see it, OR • It has been removed from the system	ANSI AAMI ES 60601-1; IEC 60601-1-6 Medical Elec. Equip.- Part 1-11: Gen. Req. For Basic Safety & Essential Req For Med Elec. Equip. & Medical Elec. Systems Used In The Home 60601-1-11:2015 Ed.2]

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM9X1001P-WWWVV-T2A

May 9, 2025

	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendr http://www.ce-mark.com/Rohs%20final.pdf
	UKCA Certification
	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/)
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment) Mark is on the label or Molded in the case