

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

Model:GTM9X1001P-WWWVV-TP

May 21, 2024

GTM9X1001P-WWWVV-TP

Information

Model Number	GTM9X1001P-WWWVV-TP
Description	GTM9X1001P-WWWVV-TP, 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~ @ 50-60Hz + 115V~ @ 400Hz, Lead Wire, see Blades/Cord Included for description, Output Rating: 100 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: UKCA; RoHS; Morocco; PSE; PSE; ETL (pending); EAC; China RoHS; CB 60601-1 (pending); VCCI; PSE;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM9X1001P/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000Lr7vrEAB
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000Lr7vrEAB
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

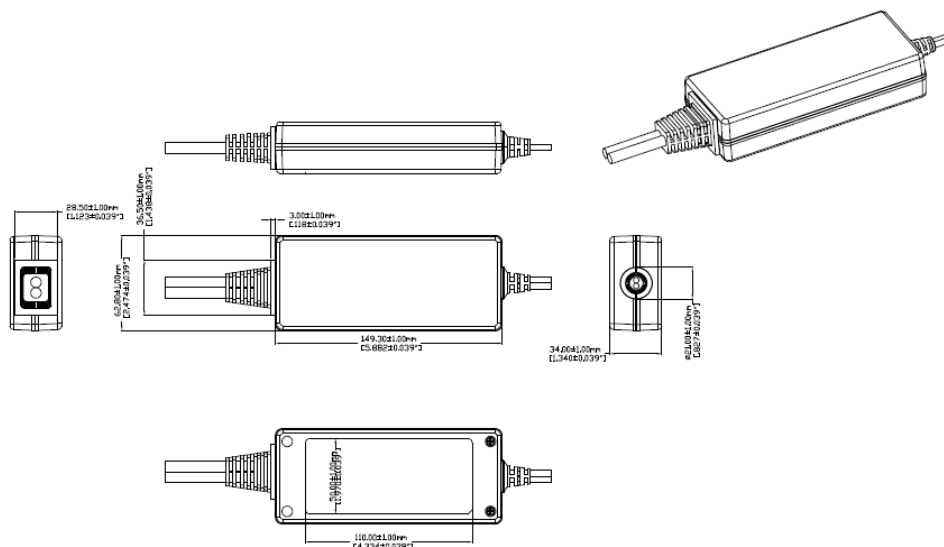
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~ @ 50-60Hz + 115V~ @ 400Hz
I/P Amps (A)	1.5A
Wattage (W)	100.0
Vout Range (V)	12-54
Efficiency Level	
Ingress Protection	IP43
Size (mm)	149.4 x 62.6 x 34

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ENCLOSURE



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RATING TABLE

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

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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
Power Factor (PF):	> 0.99 @ 115V/60Hz, > 0.95 @ 230V/50Hz, > 0.95 @ 115V/400Hz (50 to 100% 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 10µF low-ESR electrolytic cap + 0.1µF 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/VaAH4Haj7uF/PFHKApe95ms.html>

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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:	IP43
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 from input to output 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
Output Isolation Options:	Class II (2-conductor input) Class II with functional earth "F2" (3-conductor input:)

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Class I earthed output (3-conductor input)

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

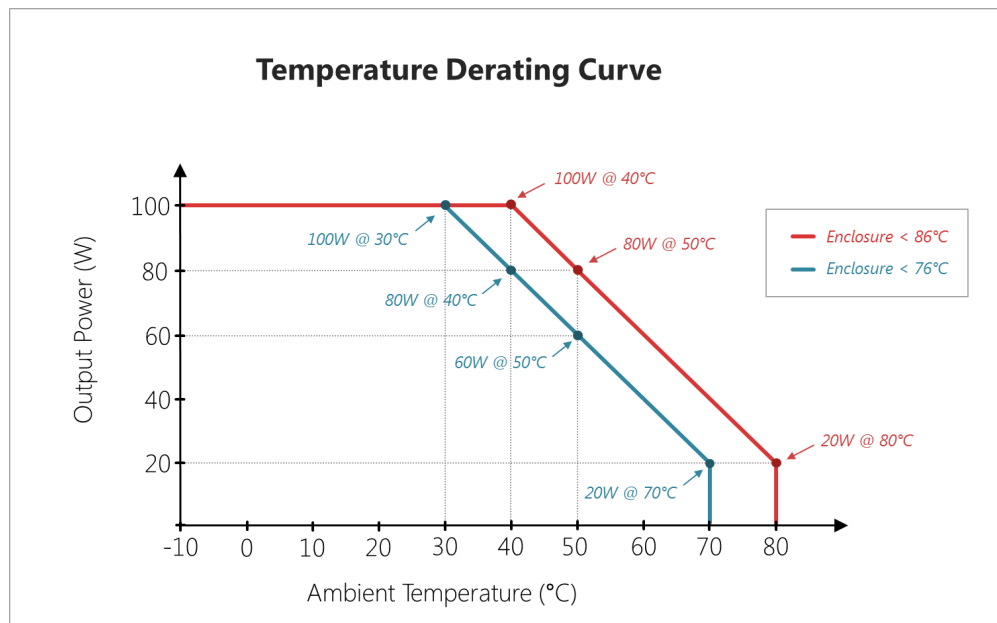
Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Markings:	Adhesive backed label or laser engraving

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DERATING CURVE



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INPUT CONFIGURATION

Description	Lead Wire, see Blades/Cord Included for description
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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.

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Approvals

Logo	Description
No Logo Applicable	CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 pending (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V only
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	Declaration ДС № EAЭС N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
	Medical Elec. Equip.- Part 1-11: Gen. Req. For Basic Safety & Essential Perf.- Collateral Standard - Req. For Medical Elec. Equip. & Medical Elec. Systems Used In The Home Healthcare Environment [IEC 60601-1-11:2015 Ed.2] (pending)
	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(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE 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)[DC15?30V]. Please reference the following website for guidelines on PSE 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 website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/

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RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
	UKCA Certification
	Japan: Voluntary Control Council for Interference (VCCI)