

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

Model:GTM91099-60VV-T2A

May 2, 2024

GTM91099-60VV-T2A

Information

Model Number	GTM91099-60VV-T2A
Description	GTM91099-60VV-T2A, Medical/ICT/ITE/Household use Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8"), Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: South Africa; UKCA; Korea (9.1V,10V,11V,12V, 13V,13.8V,14V,15V Only); Conforms to 62368-1; CB 62368; ETL 62368; CB 61158; CCC; IRAM; Double Insulation; WEEE; Ukraine; VCCI; CE; China RoHS; PSE; RoHS; Designed to meet EN 60950-1; Book 60601; Designed to meet 60950-1; ETL; CE; S-Mark IEC/EN 60601-1 60950; EAC; FCC; IP42; ETL; CB 60601-1;
Model Picture	.
Agency Documents	http://www.globtek.info/certs/GTM91099/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000LMRN5EAP
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000LMRN5EAP
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

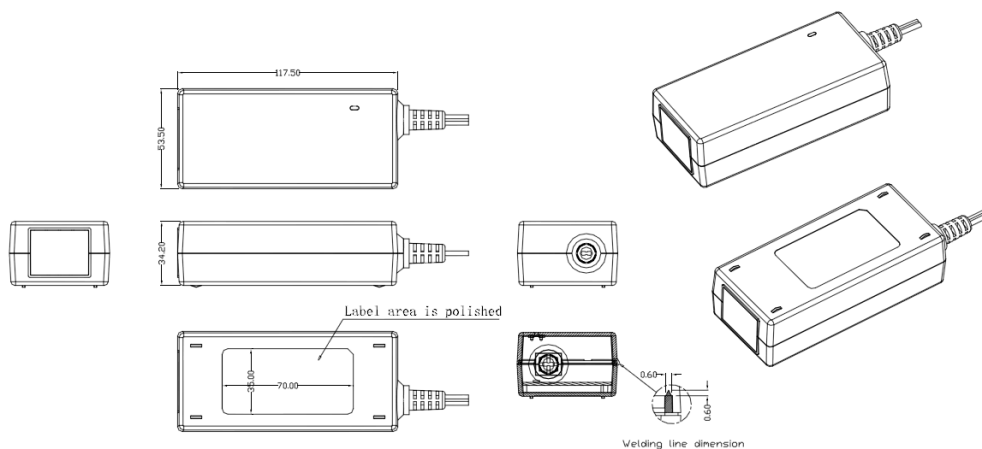
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical/ICT/ITE/Household use Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	
Size (mm)	

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91099-6015-3.0-T2A	V			RFQ
GTM91099-3009-4.0-T2A	5 V	6	30.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% nominal output voltage measured at the output connector at nominal line
04. Line Voltage Regulation: +/- 2% max at full load
05. Output Ripple (Vp-p): +/-1% or 150mV whichever is greater at nominal output voltage. Measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector.
06. Turn-ON/OFF Overshoot: 5% max, 500uS max recovery time for 25% to 50% step load
07. Turn-ON Delay: 2 Seconds, maximum @ full load, nominal line
08. Hold-Up Time: 8 mS at nominal input and full load
09. Inrush Current: 40A max at cold start 120 VAC, 60A max cold start 230VAC
10. Switching Frequency: 100 KHz typical

B) PROTECTION

1. Over-Voltage: Protected, Hiccup with auto recovery
2. Short Circuit: Protected, Hiccup with auto recovery
3. Over-load: Protected, Hiccup with auto recovery
4. Input Protection: Input line and neutral fusing
5. Means of Patient Protection: (2 x MOPP)

C) SAFETY

01. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
02. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
03. Means of Protection: 2 x MOPP
04. Primary to Secondary Bridging Capacitor: (2) * Y1 type capacitors in series

D) OTHER:

1. MTBF: 200,000 Hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature
3. Humidity: 0% to 90% relative humidity
4. Storage Temperature: -10°C to 80°C
5. Cooling: Convection

E) ENCLOSURE

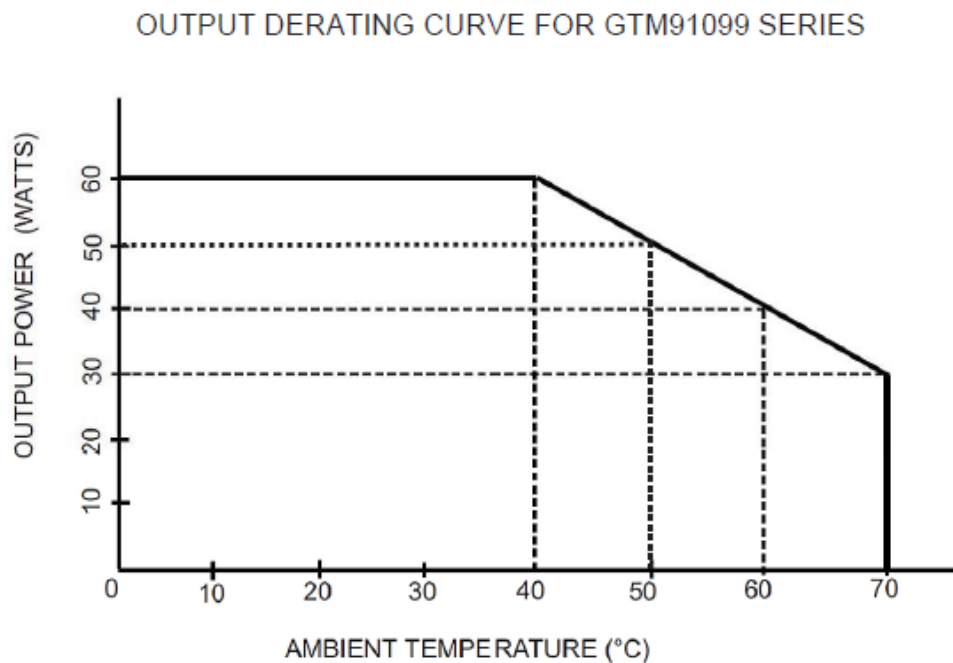
1. Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Size: 117.53*53.50*34.2 mm +/- 1.0
3. Markings: Label and/or Pad Printed and/or Molded into Case
4. LED: Standard Green color to indicate power on

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DERATING CURVE



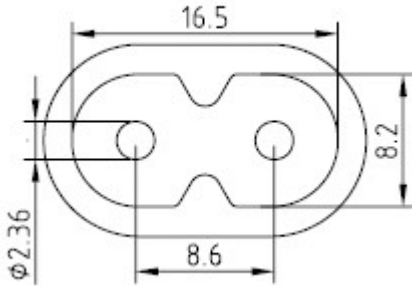
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INPUT CONFIGURATION

Description IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8")



Mates with IEC 60320/C7 Plug

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.

Standard International IEC 320/C7 Cordsets

Part Number	Type	Standard	Connector	Length (mm)	Length (feet)
2094112M703(R)	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
5014112M703A(R)	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
207B4111M8703(R)	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
4533501M8703(R)	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
2074112M703A(R)	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
2074112M703AEUSA(R)	European/South Africa Combo(Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703B(R)	India (Type D)	IS 1293	IEC 320/C7	1800	6
451J3401M8703(R)	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
2044112M703A(R)	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
4511116F703A(R)	North America (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
2084111M8703(R)	South Africa (Type M)	BS 546	IEC320/C7	1830	6
4033401M8703A(R)	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
6104112M703A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7

PROPRIETARY INFORMATION

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<https://www.globtek.com/ds/VpXLeGLfVWH/JTt52f2r8sp.html>

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451G1116F703A(R)	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the United Arab Emirates (UAE)(Type A)	Nema 1-15P	IEC320/C7	1830	6
6303742M5703(R)	Thailand (Type C)	TIS 166-2549	IEC320/C7	2500	8

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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
	60601-1 3rd Operating Instructions
No Logo Applicable	IEC 60601-1: 2005 + C1 + C2 + A1
No Logo Applicable	IEC 61558-1:2005+A1, IEC 61558-2-16:2009+A1
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
 仅适用于在海拔5000以下地区使用	CCC to GB4943.1-2011 GB9254-2008 GB17625.1-2012
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2014 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - M on the label or Molded in the case
 Intertek 4007497	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Require [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Require [CSA C22.2#62368-1:2014 Ed.2]
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-2014.pdf
Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1

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No Logo	Designed to meet UL60950-1, cULus to UL 60950-1, 2nd Edition, 2007-03-27 and CSA C22.2 60950-1-07, 2nd Edition, 2007-03
No Logo	Designed to meet EN 60950-1 :2006+Am 1:2010+Am 11 :2009+Am 12:2011+A2:2013
	
	Certification # TC RU C-US.AR46.B.79113 Custom Union of Russia, Belarus and Kazakhstan
	Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Perform (AAMI ES60601-1:2005+A1) Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Perform (CSA C22 2#60601-1:2014 Ed.3)
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27 Ed: 2 Rev: 2014/10/14)
	FCC PART 15B Report STR14078169E-3
	Indoor Use Only - Mark is on the label or Molded in the case
IP42	Ingress Protection: ?IP42 to IEC60529:2001 Protection against granular foreign bodies - Protected against direct sprays up to 15o from the vertical Optional
 DC-E-G71-010.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate GTM96600 GTM91099 T2(A) R2 to IEC 62368-1:2014

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 직류전원장치 AC/DC ADAPTER KTC HU10499-21045A R-R-GSZ-0009 전기용품안전관리법에 의한 표시 모델명:GTM91099-6015-T2 Mfr Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-8221-8100	Korea HU10499-21045A GTM91099-6015-T2(A) (9.1V,10V,11V,12V, 13V,13.8V,14V,15V)
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please the procedure listed in the following link for proper import to Japan: https://www.globtek.com/r2/Szj4Vb
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS+) http://www.ce-mark.com/Rohs%20final.pdf
 Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
No Logo	12
	UKCA Certification
 10276	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en) Mark is on the label or Molded in the case