

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

Model:GTM91099-60VV-T2(non-Hybrid)

August 17, 2019

GTM91099-60VV-T2(non-Hybrid)

Information

Model Number GTM91099-60VV-T2(non-Hybrid)

Description GTM91099-60VV-T2(non-Hybrid), ITE / Medical Power Supply, 60601-1-4th Ed. , Wall Plug-in+Desktop Combination, 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: CE; Ukraine; Level V; China RoHS; WEEE; CE; RoHS; VCCI; IEC/EN60601-1; IEC/EN60950-1; IEC 60335; Fuse 60335; LPS; Book 60601; IRAM; Double Insulation; CB 60601-1 2MOPP; RCM; CE; CCC; cRUus; CB 60950; CB EN/IEC 60335-1; Peru; Taiwan BSMI; SGS (Brazil); Singapore (16V only); Malaysia; Colombia; South Africa; South Africa; FCC; EC; FCC; PSE; PSE; PSE; 2MOPP; cULus; CB 60601-1; NOM; ETL; CE; S-Mark IEC/EN 60601-1 60950;

Model Picture



- Agency Documents <http://www.globtek.info/certs/GTM91099/>
- CE EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000FjACaEAN
- RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000FjACaEAN
- 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

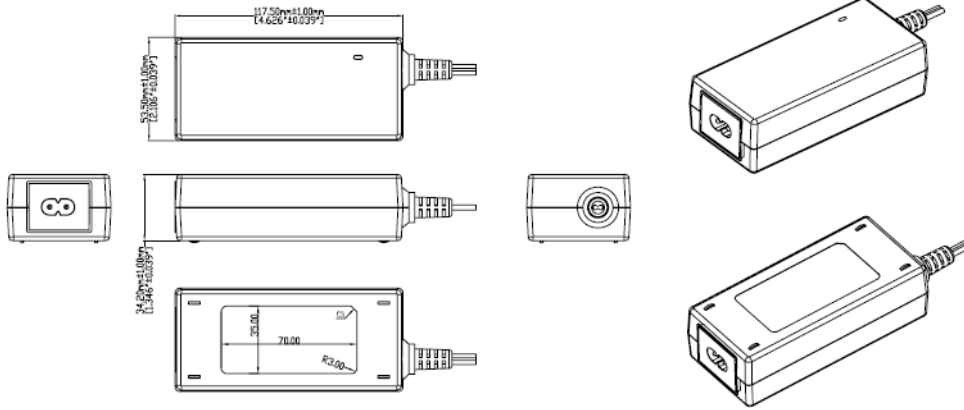
Type	Wall Plug-in+Desktop Combination
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5 A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	IP40
Size (mm)	117.50*53.50*34.2

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ENCLOSURE



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RATING TABLE

Model Number Voltage Amps(A) Watts(W) 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: 117.50*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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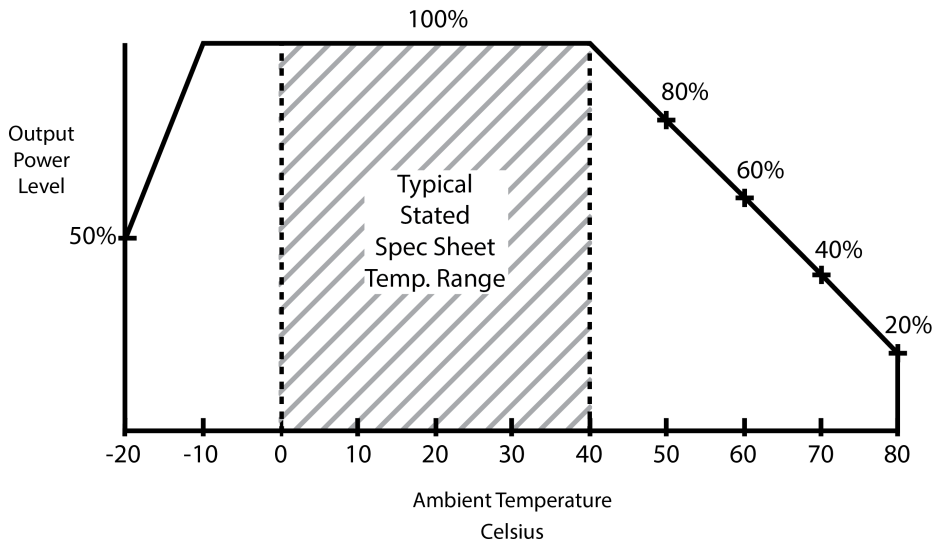
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DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



Note:

@ 15W UL certified to +70C for GTM91099-3009-4.0 only

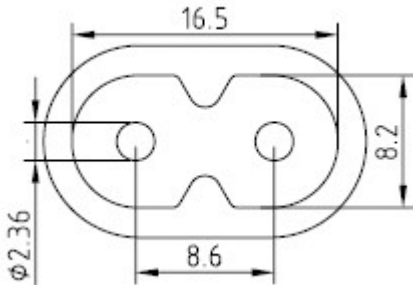
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Input Configuration

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

2094112M703(R) Argentina (Type I)	IRAM 2063	IEC 320/C7	20007
5014112M703A(R) Australian (Type I)	AS 3112	IEC 320/C7	20007
207B4111M8703(R) Brazil (Type N)	NBR14136	IEC 320/C7	18006
4533501M8703(R) China (Type A)	GB 2099.1	IEC 320/C7	18306
2074112M703A(R) European (Type C)	CEE 7/16	IEC 320/C7	20007
2084111M8703(R) India (Type M)	BS 546	IEC 320/C7	18006
451J3401M8703(R) Japan (Type A)	JIS 8303	IEC 320/C7	18306
2044112M703A(R) Korea (Type C)	KS C8305	IEC 320/C7	20007
4511116F703A(R) N. American (Type A)	NEMA 1-15P	IEC 320/C7	18306
4033401M8703A(R) Taiwan (Type A)	CNS690	IEC 320/C7	18306
6104112M703A(R) UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	20007

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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
2MOPP	2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name
	Attention Mark / Refer to operating manual for operating and service instructions
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
	BSMI Taiwan GTM91099-6024-8.0-T2 (16V only); CNS143361-1 (99) CNS13438 (95)
R32282 RoHS (Pb)	http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=8167=2
No Logo Applicable	IEC 60601-1: 2005 + C1 + C2 + A1
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition 2xMOPP
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011
No Logo Applicable	CB to 60335-1 5th Edition (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) CB Report/ Certificate IEC 60335-1:2010 Up to 36 volts only
	CCC to GB4943.1-2011 GB9254-2008 GB17625.1-2012
仅适用于在海拔2000m以下地区使用	
	CE Certification Class II CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15 B
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with Additional EN610006-1:2007, EN610006-2:2005
	EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - Mark is on the label or Molded in the case
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
No Logo	Colombia GTM91099-T2 No logo
	cRUus UL Recognized Component E172861 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology)

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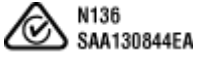
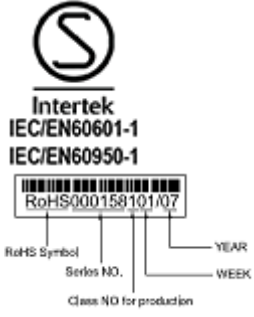




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	Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
No Logo	EC-Conformity Declaration: http://www.globtek.com/html/iso_certificates/EC-DECLARATION.pdf , REACH 144 SVHC: http://www.globtek.com/html/iso_certificates/Reach144.pdf
	Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Performance (AAMI ES60601-1:2005+A1) Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Performance (CSA C22 2#60601-1:2014 Ed.3)
	FCC PART 15 CLASS B FCC PART 15B Report STR14078169E-3 IEC/EN60335-1 Up to 36 volts IEC/EN60601-1 IEC/EN60950-1
	Indoor Use Only - Mark is on the label or Molded in the case
PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-001.7 to IEC 60950 + A1:2009
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
EFFICIENCY LEVEL 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
LPS	Limited Power Source
No Logo	Malaysia ST Release Letter GTM91099T2 -T3A IEC60950-1(Ed.2): 2005 + A1:2009 No logo
	NOM (Mexico) to NOM-001-SCFI-1993 GTM91099-6024-8.0-T2 for 16V

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No Logo 	Peru MTC GTM91099-T2 No logo RCM N136; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
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 Semko S-Mark-Cert-EN60601-1 and EN60950-1 Serial Number Information
	SGS (Brazil) to IEC 60950-1_2005 + A1_2009 +A2_2013 (5 - 48 Volts)
FONTE DE ALIMENTAÇÃO DE ITE 	Singapore GTM91099-6024-8.0-T2 ICE 60950-1:2005 + 2009 +A2:2013 (16V only)
140940-11 No Logo No Logo	12 South Africa approval to SANS IEC 60950
	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
10276 	Japan: Voluntary Control Council for Interference (VCCI) WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/wEEE/index_en.htm) Mark is on the label or Molded in the case