

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

Model:GTM91099-60VV-P2

May 20, 2019

## GTM91099-60VV-P2

### Information

Model Number GTM91099-60VV-P2

Description GTM91099-60VV-P2, ITE / Medical Power Supply, 60601-1-4th Ed. , Potted/Encapsulated in plastic housing, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, See "Blade/Cord Installed" section, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: WEEE; Double Insulation; Ukraine; RoHS; CE; CB 60601-1; CE; China RoHS; NEMKO; VCCI; IP68; Level V; Book 60601; CB 60950; IEC/EN60601-1; IEC/EN60950-1; PSE; ETL; CE; S-Mark IEC/EN 60601-1 60950; EAC; FCC; cRUus;

Model Picture



Agency

Documents

<http://www.globtek.info/certs/GTM91099/>

CE

[https://www.globtek.com/pdf/ec\\_declaration/a00a000000c2vYIEA3](https://www.globtek.com/pdf/ec_declaration/a00a000000c2vYIEA3)

EC-Declaration

RoHS/RoHS2

[https://www.globtek.com/pdf/rohs\\_cert/a00a000000c2vYIEA3](https://www.globtek.com/pdf/rohs_cert/a00a000000c2vYIEA3)

Declaration

REACH

Declaration

[https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](https://www.globtek.com/pdf/iso_certificates/REACH.pdf)

Conflict

Minerals

<https://www.globtek.com/pdf/conflict-minerals.pdf>

Declaration

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

Model:GTM91099-60VV-P2

May 20, 2019

**Model Parameters**

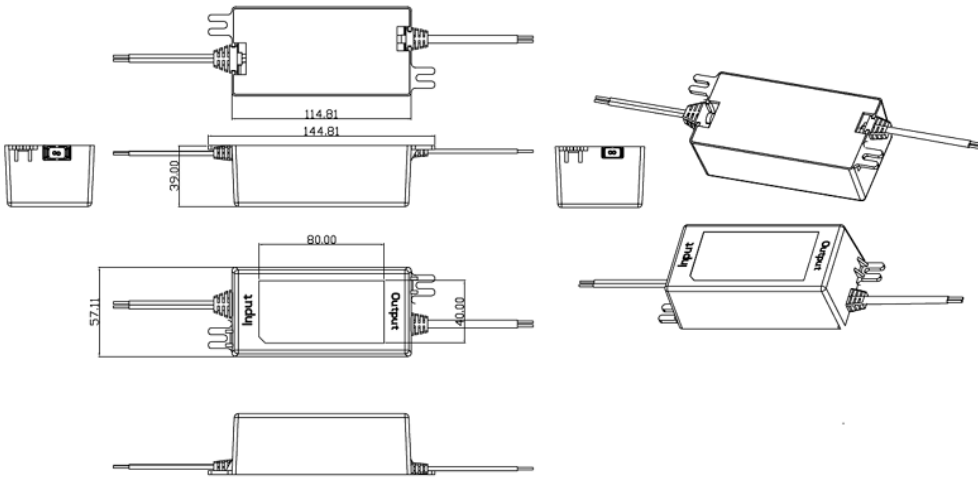
Type	Potted/Encapsulated in plastic housing
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	IP68
Size (mm)	144.81*57.11*39.0

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

Model:GTM91099-60VV-P2

May 20, 2019

ENCLOSURE



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

Model:GTM91099-60VV-P2

May 20, 2019

**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91099-3009-4.0-P2	25 V	6	30.00	<a href="#">RFQ</a>
GTM91099-4509-P2	9 V	5	45.00	<a href="#">RFQ</a>
GTM91099-6015-3.0-P2	12 V	5	60.00	<a href="#">RFQ</a>
GTM91099-6015-P2	15 V	4	60.00	<a href="#">RFQ</a>
GTM91099-6024-P2	24 V	2.5	60.00	<a href="#">RFQ</a>
GTM91099-6048-P2	48 V	1.25	60.00	<a href="#">RFQ</a>

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

Model:GTM91099-60VV-P2

May 20, 2019

**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% measured at the output connector
04. Line Voltage Regulation: +/- 2% typical measured at full load
05. Output Ripple (Vp-p): +/-1% or 150 mV whichever is greater, 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 at nominal line
06. Turn-ON/OFF Overshoot: 5% maximum, 0.5 mS typical recovery time for 25% to 50% step load
07. Turn-ON Delay: 2 S, maximum @ full load, nominal line
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 40A maximum cold start @ 240Vac input
10. Switching Frequency: 100 KHz typical

**B) PROTECTION**

01. Over-Voltage: Protected, HICCUP with auto recovery
02. Over Load: Protected, HICCUP with auto recovery
02. Short Circuit: Protected, HICCUP with auto recovery
03. Input Protection: Input and neutral line fusing

**C) SAFETY**

01. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
02. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
03. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
04. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

**D) OTHER:**

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: -30°C to 70°C (see derating curve)
03. Storage Temperature: -30°C to 80°C
04. Cooling: Convection

**E) ENCLOSURE**

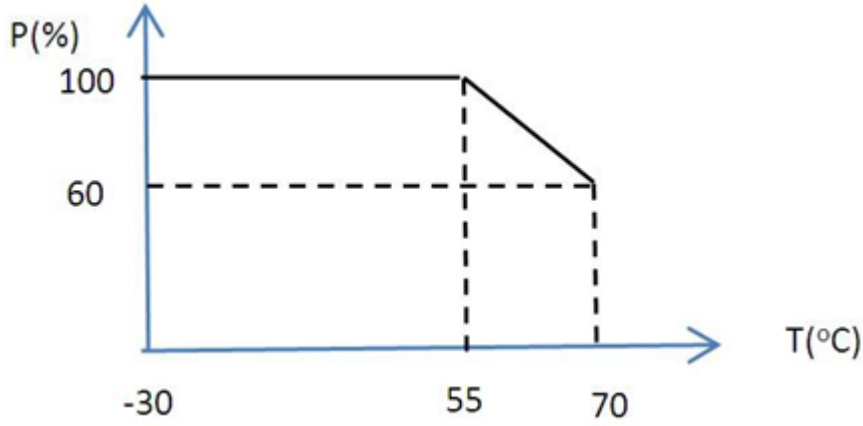
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 114.81 x 57.11 x 33.0 +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

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

Model:GTM91099-60VV-P2

May 20, 2019

DERATING CURVE



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

Model:GTM91099-60VV-P2

May 20, 2019

**Input Configuration**

Description See "Blade/Cord Installed" section

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

Model:GTM91099-60VV-P2

May 20, 2019

**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.










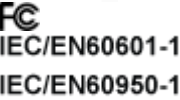




Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM91099-60VV-P2

May 20, 2019



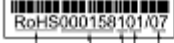


## Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
	60601-1 3rd Operating Instructions
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition
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
	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 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 15B - On label or Molded in case
	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
	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
	cRUus UL Recognized Component E172861 3rd Edition and UL 60950-1 w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	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 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 15B Report STR14078169E-3 IEC/EN60601-1 IEC/EN60950-1
	Indoor Use Only - Mark is on the label or Molded in the case
IP68	Ingress Protection: ?IP68 to IEC60529:2001 Totally dust tight and Protected against long periods of immersion under pressure
<b>EFFICIENCY LEVEL</b> 	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)
	NEMKO

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

Model:GTM91099-60VV-P2

May 20, 2019

	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: <a href="http://en.globtek.com/importing-to-japan.php">http://en.globtek.com/importing-to-japan.php</a> .
GlobTek, Inc.	
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
	
Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
	
RoHS Symbol Serial NO. YEAR WEEK Class NO for production	Serial Number Information
	Ukraine UKRSepr (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case