

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

Model:GTM91099-60VV-FW

April 27, 2024

GTM91099-60VV-FW

Information

Model Number

GTM91099-60VV-FW

Description

GTM91099-60VV-FW, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: UKCA; CE; Double Insulation; RoHS; Ukraine; cUR; VCCI; WEEE; cRUus; China RoHS; CB 60601-1 2MOPP; Level V; Book 60601; CB 60950; CE; IEC/EN60950-1; South Africa; ETL; CE; S-Mark IEC/EN 60601-1 60950; EAC; IEC/EN60601-1; South Africa;

Model Picture



Agency Documents

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

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a00a000000C2pYVEAZ

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a00a000000C2pYVEAZ

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

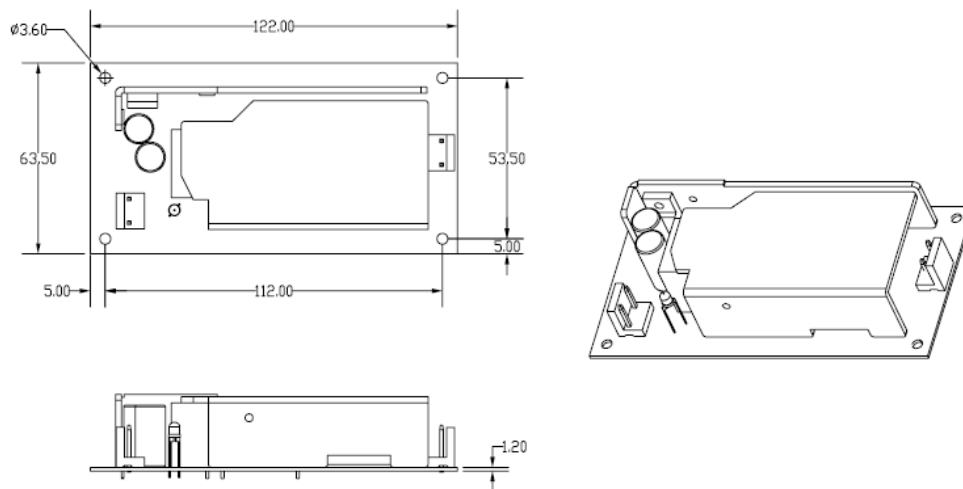
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5 A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	
Size (mm)	125*75*38

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91099-3009-4.0-FW	5 V	6	30.00	RFQ
GTM91099-4509-FW	9 V	5	45.00	RFQ
GTM91099-6015-3.0-FW	12 V	5	60.00	RFQ
GTM91099-6015-FW	15 V	4	60.00	RFQ
GTM91099-6024-FW	24 V	2.5	60.00	RFQ
GTM91099-6048-FW	48 V	1.25	60.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated 100-240 Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60 Hz
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 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 at nominal line
06. Turn-ON/OFF Overshoot: 5% maximum, 500uS typical 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 typical @ nominal input voltage and full load
09. Inrush Current: 40/60A maximum cold start @ 115/230Vac input
10. Switching Frequency: 100 KHz typical

B) PROTECTION

1. Over-Voltage: Protected with a Zener diode clamp across the output
2. Short Circuit: Hiccup with auto recovery
3. Over-load: 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. 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:

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

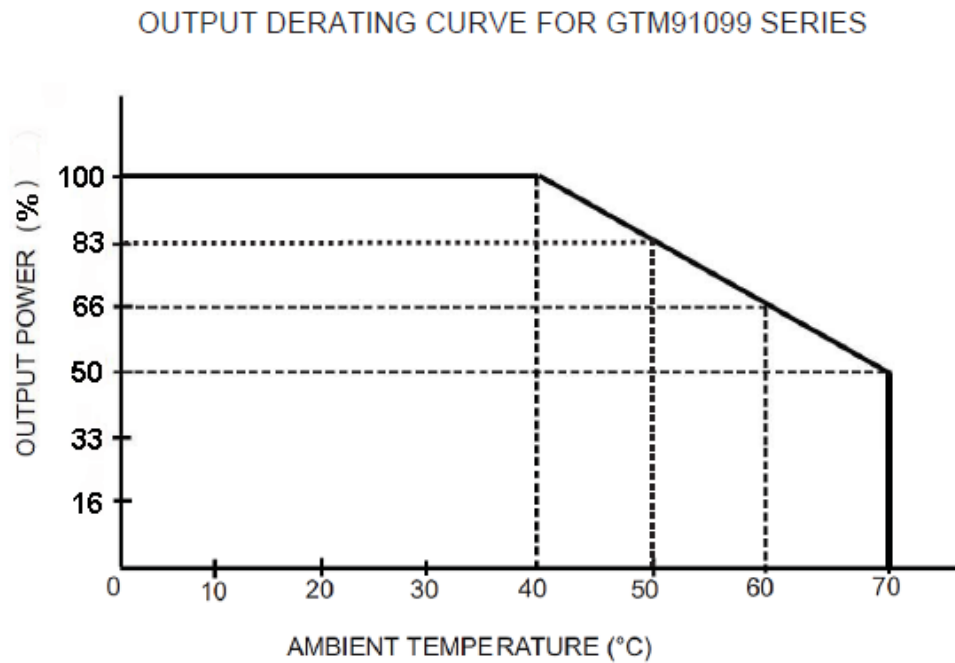
1. Open Frame
2. Size: 122*63.5*34 +/-1.0 mm
3. LED: Standard Green color to indicate power out (other colors available)

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DERATING CURVE



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INPUT CONFIGURATION

Description Molex 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line

Document: http://www.molex.com/pdm_docs/sd/009652038_sd.pdf

Catalog Page: http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652038_PCB_HEADERS.xml


Mates With Part(s):

5195 SPOX™ Crimp Housing, 5239 KK® Crimp Housing

Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
XHP410070M7MLX3(R)	70	JST XHP-4	Molex 09-93-0300
C810070M6MLX3(R)	60	IEC60320 C8	Molex 09-93-0300
C1410070M6MLX3(R)	60	IEC60320 C14	Molex 09-93-0300

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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 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
	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 EN61000-3-2, EN61000-3-3 and EN50082-1, including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61001-1-2-2007 EMI: Complies with EN55011 CLASS B and FCC Part 15 B
	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
	cRUus UL Recognized Component E341350 3rd Edition 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

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	(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)
IEC/EN60601-1	IEC/EN60601-1
IEC/EN60950-1	IEC/EN60950-1
	Indoor Use Only - Mark is on the label or Molded in the case
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)
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
 Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
 RoHS000158101/07 RoHS Symbol YEAR Serial NO. WEEK Class NO for production	Serial Number Information
No Logo	South Africa approval to SANS IEC 60950
No Logo	South Africa approval to SANS IEC 60950
	UKCA Certification
 1Q276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)

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	UL cRUus Registered E341350
	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