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Model:GTM21097-WVVV-T2

August 17, 2019

## GTM21097-WVVV-T2

### Information

Model Number GTM21097-WVVV-T2

Description GTM21097-WVVV-T2, Medical Power Supply, 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: 50 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: CE; Korea (12V Only); GOST-R; PSE; RoHS; Ukraine; VCCI; WEEE; cRUus; IP42; China RoHS; Book 60601; CB 60601-1; FCC; SIQ; Double Insulation;



Agency Documents <http://www.globtek.info/certs/GTM21097/>

CE EC-Declaration [https://www.globtek.com/pdf/ec\\_declaration/a0Oa000000C2iESEAZ](https://www.globtek.com/pdf/ec_declaration/a0Oa000000C2iESEAZ)

RoHS/RoHS2 Declaration [https://www.globtek.com/pdf/rohs\\_cert/a0Oa000000C2iESEAZ](https://www.globtek.com/pdf/rohs_cert/a0Oa000000C2iESEAZ)

REACH Declaration [https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](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**

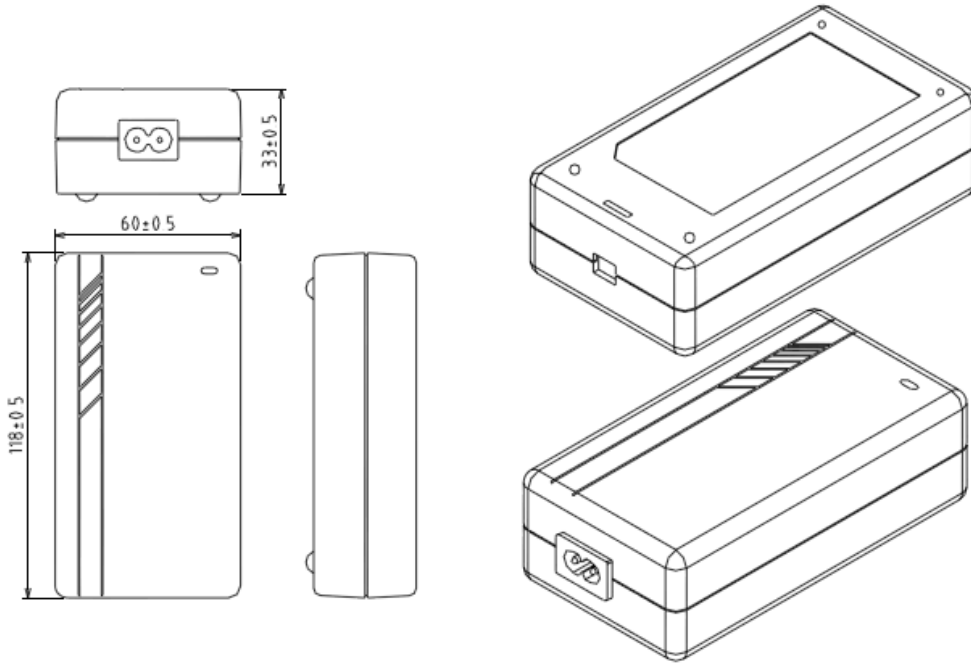
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.6A
Wattage (W)	50.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	IP40
Size (mm)	

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ENCLOSURE



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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
a17a00000LICsC	V			<a href="#">RFQ</a>
GTM21097-5024-4.0-T220	V	2.5	50.00	<a href="#">RFQ</a>

## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

1. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
2. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
3. Output Regulation: +/- 5% measured at the output connector
4. Line Voltage Regulation: +/- 1% typical measures at full load
5. Output Ripple (Vp-p): 1% of output voltage typical measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of output connector at nominal line
6. Turn-On/Turn-Off Overshoot: 5% maximum, mS typical recovery time for 25% step load
7. Turn-On Delay: 1 S second typical
8. Hold-Up Time: 10mS typical @ nominal input voltage & full load
9. Inrush Current: 20A typical @ 115Vac input ; 30A typical @ 230Vac input
10. Switching Frequency: 100 KHz typical

### B) PROTECTION

1. Over-Voltage: Voltage limited by crowbar unit will recover upon removal of fault
2. Short Circuit: Hiccup, unit will recover upon removal of fault
3. Input Protection: Input line & neutral fusing

### C) SAFETY

1. Dielectric Withstand Voltage: 4242Vdc (2xMOOP)  
from primary to secondary
2. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
3. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)

### 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. Ingress Protection: IP40

### E) ENCLOSURE

1. Upper Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Lower Housing: High impact plastic, 94V0 polycarbonate, non-vented
3. Size: 118\*60\*33 + 0.5 mm +/-1.0
4. Green LED to indicate Power On

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DERATING CURVE

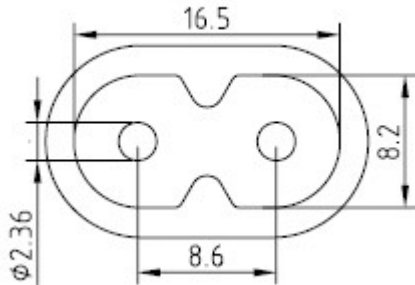
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**Input Configuration**

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

<a href="#">2094112M703(R)</a> Argentina (Type I)	IRAM 2063	IEC 320/C7	20007
<a href="#">5014112M703A(R)</a> Australian (Type I)	AS 3112	IEC 320/C7	20007
<a href="#">207B4111M8703(R)</a> Brazil (Type N)	NBR14136	IEC 320/C7	18006
<a href="#">4533501M8703(R)</a> China (Type A)	GB 2099.1	IEC 320/C7	18306
<a href="#">2074112M703A(R)</a> European (Type C)	CEE 7/16	IEC 320/C7	20007
<a href="#">2084111M8703(R)</a> India (Type M)	BS 546	IEC 320/C7	18006
<a href="#">451J3401M8703(R)</a> Japan (Type A)	JIS 8303	IEC 320/C7	18306
<a href="#">2044112M703A(R)</a> Korea (Type C)	KS C8305	IEC 320/C7	20007
<a href="#">4511116F703A(R)</a> N. American (Type A)	NEMA 1-15P	IEC 320/C7	18306
<a href="#">4033401M8703A(R)</a> Taiwan (Type A)	CNS690	IEC 320/C7	18306
<a href="#">6104112M703A(R)</a> 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
	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 including 2MOOP requirements
	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: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
	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)
	FCC PART 15 CLASS B
	GOST-R mark for Russia(Document: <a href="http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf">http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf</a> ). 03/15/2015. Due to lack of demand, GlobTek will not be renewing it's GOST certification. Please contact your sales engineer for pricing on EAC.
IP42	Indoor Use Only - Mark is on the label or Molded in the case
	Ingress Protection: ?IP42 to IEC60529:2001 Protection against granular foreign bodies - Protected against direct sprays up to 15o from the vertical Optional
	Korea KET KC Mark GTM21097-5012 HU10040-7022B (12V Only)
	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.	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3)
RoHS	<a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
	Serial Number Information
	
	SIQ Mark License EN60601-1
IEC/EN60601-1	
	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> )
10276	

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Japan: Voluntary Control Council for Interference (VCCI)

WEEE: Complies with EU 2012/19/EU ([http://ec.europa.eu/environment/waste/wEEE/index\\_en.htm](http://ec.europa.eu/environment/waste/wEEE/index_en.htm))

Mark is on the label or Molded in the case