

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

Model:GTM21097CC-WVVV-T2

September 21, 2024

## GTM21097CC-WVVV-T2

### Information

Model Number	GTM21097CC-WVVV-T2
Description	GTM21097CC-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: UKCA; Book 60601; CB 60601-1; CE; China RoHS; Double Insulation; cUR; FCC; GOST-R; IP42; Korea (12V Only); PSE; RoHS; SIQ; Ukraine; VCCI; WEEE;

### Model Picture



Agency Documents	<a href="http://www.globtek.info/certs/GTM21097/">http://www.globtek.info/certs/GTM21097/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a00a00000MFCYkEAP">https://www.globtek.com/pdf/ec_declaration/a00a00000MFCYkEAP</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a00a00000MFCYkEAP">https://www.globtek.com/pdf/rohs_cert/a00a00000MFCYkEAP</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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**MODEL PARAMETERS**

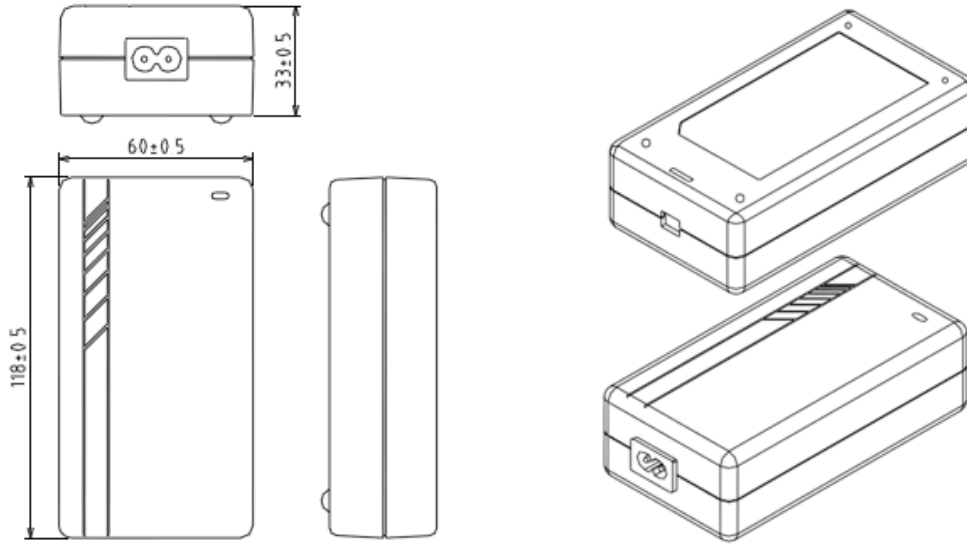
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.6A Max
Wattage (W)	50.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	
Size (mm)	118*60*33±0.5 mm

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## ENCLOSURE



INDICATOR:  
GREEN LED: CHARGED  
AMBER LED: CHARGING

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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM21097CC-7.3515-0.3-T2	14.7 V	0.5	7.35	<a href="#">RFQ</a>
GTM21097CC-5048-20.2-T2	27.8 V	0.8	22.24	<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 current range: 0 to XXA, constant current set to XXA
4. Output Regulation: +/- 5% measured at the output connector
5. Line Voltage Regulation: +/- 1% typical measures at full load
6. 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
7. Turn-On/Turn-Off Overshoot: 5% maximum, mS typical recovery time for 25% step load
8. Turn-On Delay: 1 S second typical
9. Hold-Up Time: 10mS typical @ nominal input voltage & full load
10. Inrush Current: 20A typical @ 115Vac input ; 30A typical @ 230Vac input
11. 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: Did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION
3. Touch Current: Did not exceed 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: IPX0

### 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
4. Green LED to indicate Power On

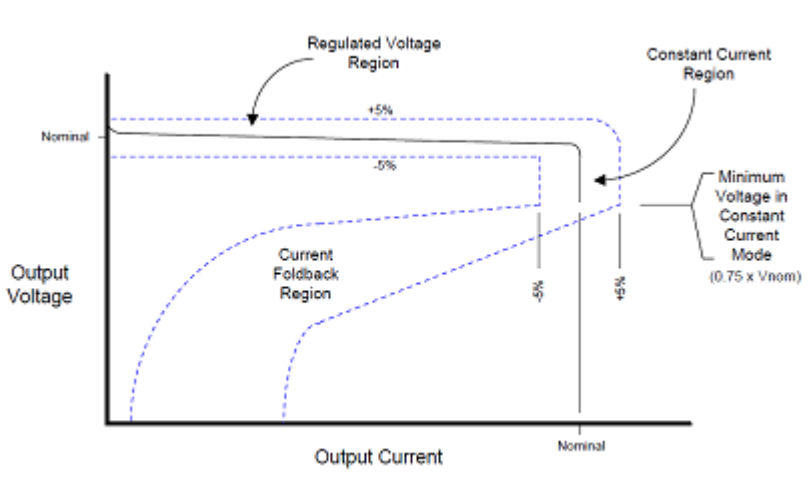
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## DERATING CURVE

Voltage-Current Characteristics Chart



FOR PRECISE OPERATION, THE OUTPUT VOLTAGE DURING CONSTANT CURRENT MODE SHOULD BE HELD ABOVE 5V.

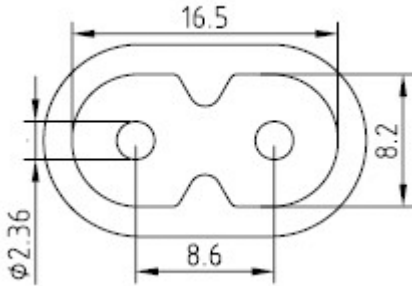
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**INPUT CONFIGURATION**

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)
<a href="#">2094112M703(R)</a>	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
<a href="#">5014112M703A(R)</a>	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
<a href="#">207B4111M8703(R)</a>	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
<a href="#">4533501M8703(R)</a>	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
<a href="#">2074112M703A(R)</a>	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
<a href="#">2074112M703AEUSA(R)</a>	European/South Africa Combo(Type C)	CEE 7/16	IEC 320/C7	2000	7
<a href="#">2084111M8703B(R)</a>	India (Type D)	IS 1293	IEC 320/C7	1800	6
<a href="#">451J3401M8703(R)</a>	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
<a href="#">2044112M703A(R)</a>	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
<a href="#">4511116F703A(R)</a>	North America (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
<a href="#">2084111M8703(R)</a>	South Africa (Type M)	BS 546	IEC320/C7	1830	6
<a href="#">4033401M8703A(R)</a>	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
<a href="#">6104112M703A(R)</a>	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/L8YgyKTsDqT/HAMGVppiQyS.html>

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<a href="#">451G1116F703A(R)</a>	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the United Arab Emirates (UAE)(Type A)	Nema 1-15P	IEC320/C71830	6
<a href="#">6303742M5703(R)</a>	Thailand (Type C)	TIS 166-2549	IEC320/C72500	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	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://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>
	UR 60601-1, 3rd Edition, CAN/CSA-C22.2 No. 601.1-1
	
	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.
	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
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a>

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 직류전원장치 AC/DC ADAPTER KTC HU1004-7022B 모델명:GTM21097-5012 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100	Korea KET KC Mark GTM21097-5012 HU10040-7022B (12V Only)
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>
 RoHS Symbol Series NO. YEAR WEEK Class NO for production	Serial Number Information
 IEC/EN60601-1	SIQ Mark License EN60601-1, 3rd edition
	UKCA Certification
 1Q276	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