

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

Model:GTM21097-WWVV

May 25, 2019

GTM21097-WWVV

Information

Model Number GTM21097-WWVV

Description GTM21097-WWVV, Medical Power Supply, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 AC Inlet Connector, Class II with functional earth, Output Rating: 50 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: RoHS; FCC; PSE; VCCI; WEEE; Ukraine; CE; EAC; cRUus; Book 60601; China RoHS; Korea (12V Only); CB 60601-1; SIQ; IP42;

Model Picture



Agency

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

CE

EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0O30000007P7ZVEA0

RoHS/RoHS2

Declaration https://www.globtek.com/pdf/rohs_cert/a0O30000007P7ZVEA0

REACH

Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf

Conflict

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

Declaration

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Model Parameters

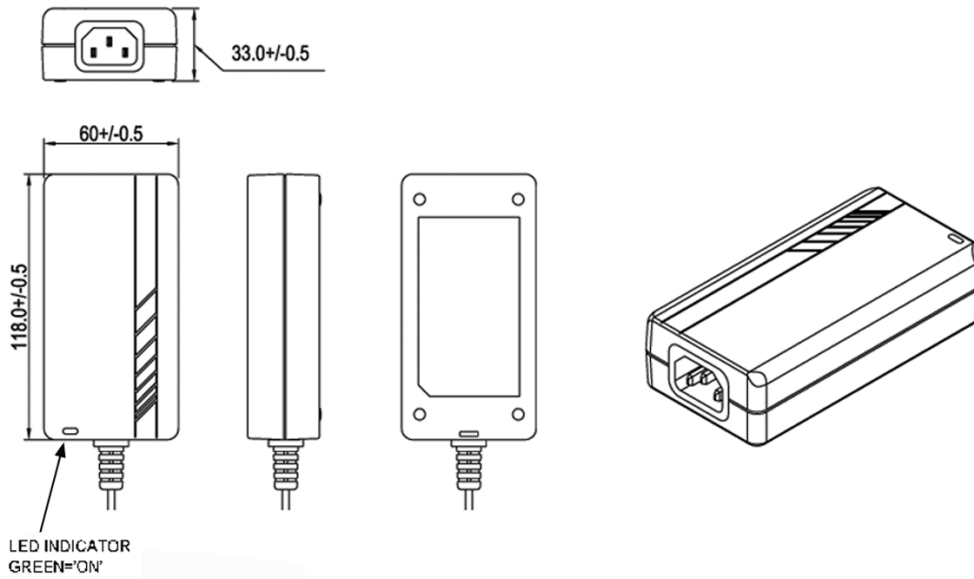
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.6A Max
Wattage (W)	50.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	IP42
Size (mm)	118*60*33

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
a17a00000LICsD	V			RFQ
GTM21097-2003	3.3 V	6	19.80	RFQ
GTM21097-3005	5 V	6	30.00	RFQ
GTM21097-4509-3.0	6 V	5	30.00	RFQ
GTM21097-4509-2.0	7 V	5	35.00	RFQ
GTM21097-4509-1.0	8 V	4	32.00	RFQ
GTM21097-4509	9 V	5	45.00	RFQ
GTM21097-5012	12 V	4.17	50.04	RFQ
GTM21097-5015-2.0	13 V	2.3	29.90	RFQ
GTM21097-5015	15 V	3.3	49.50	RFQ
GTM21097-5018	18 V	2.8	50.40	RFQ
GTM21097-5024-5.0	19 V	2.63	49.97	RFQ
GTM21097-5024-5.0	19 V	2.63	49.97	RFQ
GTM21097-5024-4.0	20 V	2.5	50.00	RFQ
GTM21097-2424	24 V	1	24.00	RFQ
GTM21097-5024	24 V	2.1	50.40	RFQ
GTM21097-5048-18.0	30 V	1.666	49.98	RFQ
GTM21097-5048-15.0	33 V	1.212	40.00	RFQ
GTM21097-5048	48 V	1	48.00	RFQ

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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: 5656 Vdc (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)
4. Earth continuity test:<0.1 Ohm or < 0.2 Ohm when with a non-detachable Power Supply cord, Class I Only
5. Type of Protection against electric shock: Class II with functional earth

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

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Input Configuration

Description IEC 60320/C14 AC Inlet Connector, Class II with functional earth



Mates with IEC 60320/C13 Plug

Standard International IEC 320/C13 Cordsets

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
3021457F701(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
1191068F0701(R)	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
2194272M5701-T(R)	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
5502022M5701A(R)	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
204B4272M5701(R)	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
6023602M5701(R)	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
G8014272M5701(R)	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
23144272M5701-T(R)	Europe (Type E)	CEE 7/7	IEC 320/C13	2500	8
205IN4272M5701(R)	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
208IN4272M5701(R)	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C13	2500	8
377C4272M5701(R)	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
23024272M5701(R)	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
3003339F701(R) [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
3003068F2701-HK(R) [3 x 2.0mm2]					
302J115J6F0701J(R)	Japan / North America (Type B – 12A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
302J104J6F0701J(R)	Japan / North America (Type B – 15A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
2313K3432M5701(R)	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
5804272M5701(R)	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
205SA4272M5701(R)	South Africa (Type D)	South Africa SABS164-1 (6A type)	IEC 320/C13	2500	8
2084272M5701(R)	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8

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23214272M5701(R)	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
3003322M5701(R)	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
PZ0800100-2M5BK13H(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
7055002M5701A(R)	International	IEC 320 C14-C13	IEC 320/C13	2500	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](#)







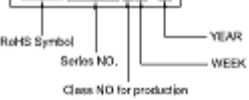


Contact GlobTek for your specific requirements or custom solutions.

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Approvals

Logo	Description
	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 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: http://en.globtek.com/globtek-rohs.php
	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 AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
	FCC PART 15 CLASS B
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 150 from the vertical Optional
	Korea KET KC Mark GTM21097-5012 HU10040-7022B (12V Only) Mfr Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100
	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: http://en.globtek.com/importing-to-japan.php .
GlobTek, Inc.	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
RoHS	
	Serial Number Information
	
	SIQ Mark License EN60601-1, 3rd edition
IEC/EN60601-1	
	Ukraine UKRSepto (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
10276	
	Japan: Voluntary Control Council for Interference (VCCI)

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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