

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

Model:GTM21089-WWVV-T3

April 15, 2021

## GTM21089-WWVV-T3

### Information

Model Number	GTM21089-WWVV-T3
Description	GTM21089-WWVV-T3, Medical Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground, Output Rating: 19 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: PSE; PSE; Korea (6V Only); EAC; UKCA; CE; VCCI; SIQ; WEEE; China RoHS; Ukraine; RoHS; Class I; CB 60601-1; Book 60601; Korea (5V Only); Korea (9V Only); Korea (12V Only); cRUus; IP40;
Model Picture	
Agency Documents	<a href="http://www.globtek.info/certs/GTM21089/">http://www.globtek.info/certs/GTM21089/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a0O3000008TGfCEAW">https://www.globtek.com/pdf/ec_declaration/a0O3000008TGfCEAW</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0O3000008TGfCEAW">https://www.globtek.com/pdf/rohs_cert/a0O3000008TGfCEAW</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)	0.5A MAX
Wattage (W)	19.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	IP40
Size (mm)	87*47*32

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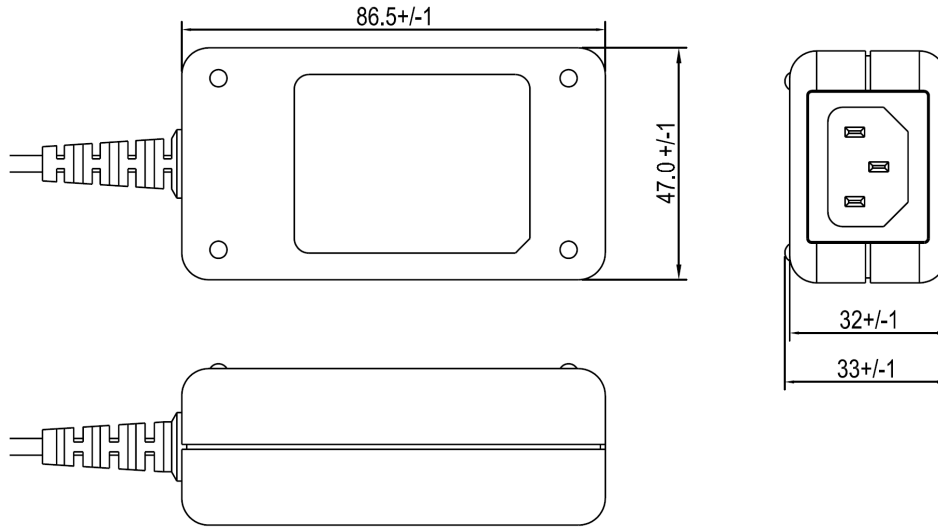
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# ENCLOSURE



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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM21089-0903-T3	3.3 V	2.6	8.58	<a href="#">RFQ</a>
GTM21089-1305-T3	5 V	2.6	13.00	<a href="#">RFQ</a>
GTM21089-1506-T3	6 V	2.5	15.00	<a href="#">RFQ</a>
GTM21089-1509-1.5-T3	7.5 V	2	15.00	<a href="#">RFQ</a>
GTM21089- 1509-1.0 -T3	8 V	1.7	13.60	<a href="#">RFQ</a>
GTM21089-1509-T3	9 V	1.7	15.30	<a href="#">RFQ</a>
GTM21089-1512-T3	12 V	1.25	15.00	<a href="#">RFQ</a>
GTM21089-1815-T3	15 V	1.2	18.00	<a href="#">RFQ</a>
GTM21089-1818-T3	18 V	1	18.00	<a href="#">RFQ</a>
GTM21089-1824-T3	24 V	0.75	18.00	<a href="#">RFQ</a>
GTM21089-1836-T3	36 V	0.5	18.00	<a href="#">RFQ</a>
GTM21089-1948-T3	48 V	0.39	18.72	<a href="#">RFQ</a>

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## 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: +/- 1% typical measured at full load
05. Output Ripple (Vp-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 1 Second, typical
08. Hold-Up Time: 10 mS typical at nominal input voltage and full load
09. Inrush Current: 30A typical at 115Vac and 40A typical at 230Vac input
10. Switching Frequency: 100 KHz typical, varies with line and load
11. Efficiency: 75% typical at nominal input and full load

### B) PROTECTION

01. Over-Voltage: limited by crowbar method
02. Over Load/Short Circuit: Momentary short circuit protected, output will auto recovery upon removal of short
03. Input Protection: Input line fusing

### C) SAFETY

01. Dielectric Withstand Voltage: 5656 Vdc from primary to secondary (for Class II with functional ground)
02. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)

### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity: 0% to 90% relative humidity
04. Storage Temperature: -10°C to 80°C
05. Cooling: Convection
06. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11363-2006

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 86.5\*47.0\*32.0 +/-0.5 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

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**DERATING CURVE**

N/A

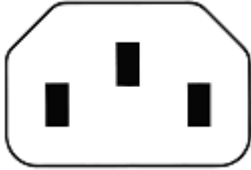
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**INPUT CONFIGURATION**

Description IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptacle and cord option available on some models by request.:


[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.

**Stock Power Supply Cords**

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
<a href="#">3021457F701(R)</a>	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
<a href="#">1191068F0701(R)</a>	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
<a href="#">2194272M5701-T(R)</a>	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
<a href="#">5502022M5701A(R)</a>	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
<a href="#">204B4272M5701(R)</a>	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
<a href="#">6023602M5701(R)</a>	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
<a href="#">G8014272M5701(R)</a>	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
<a href="#">23144272M5701-T(R)</a>	Europe (Type E)	CEE 7/7	IEC 320/C13	2500	8
<a href="#">205IN4272M5701(R)</a>	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
<a href="#">208IN4272M5701(R)</a>	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C13	2500	8
<a href="#">377C4272M5701(R)</a>	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
<a href="#">23024272M5701(R)</a>	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
<a href="#">3003339F701(R)</a> [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8

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<a href="#">3003068F2701-HK(R)</a> [3 x 2.0mm2]					
<a href="#">302J115J6F0701J(R)</a>	Japan / North America (Type B – 12A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
<a href="#">302J104J6F0701J(R)</a>	Japan / North America (Type B – 15A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
<a href="#">2313K3432M5701(R)</a>	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
<a href="#">5804272M5701(R)</a>	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
<a href="#">2084272M5701(R)</a>	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8
<a href="#">23214272M5701(R)</a>	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
<a href="#">3003322M5701(R)</a>	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
<a href="#">PZ0800100-2M5BK13H(R)</a>	UK, Hong Kong, Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
<a href="#">7055002M5701A(R)</a>	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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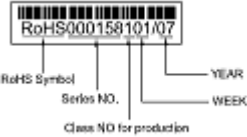



## Approvals

Logo	Description
	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 E341350 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>
	Indoor Use Only - Mark is on the label or Molded in the case
IP40	Ingress Protection: ?IP40 to IEC60529:2001 Protection against granular foreign bodies
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561.pdf, to J62368-1(H30) , J55032(H29), J3000(H25) ,[15V?30V]. Please reference the following website for PSE regulations: <a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a>
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561, to J62368-1(H30) , J55032(H29), J3000(H25) ,[15V or less]. Please reference the following website for PSE regulations: <a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a>

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 직류전원장치 AC/DC ADAPTER KTC HU10499-17033A MSIP-REM-GSZ-GT-21089-1506 전기용품안전관리법에 의한 표시 모델명:GT-21089-1506-T3 <hr/> Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea ?HU10499-17033A GT-21089-1506-T3 (6V only)
 직류전원장치 AC/DC ADAPTER KTC HU10040-3009C 모델명:GTM21089-1305-T3 <hr/> Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100	Korea KET KC Mark GTM21089-1305-T3 HU10040-3009C (5V Only)
 직류전원장치 AC/DC ADAPTER KTC HU10040-12034A 모델명:GTM21089-1509-T3 <hr/> Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100	Korea KET KC Mark GTM21089-1509-T3 HU10040-12034A (9V Only)
 직류전원장치 AC/DC ADAPTER KTC HU10040-4015C 모델명:GTM21089-1512-T3 <hr/> Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100	Korea KET KC Mark GTM21089-1512-T3 HU10040-4015C (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>
 <p>RoHS Symbol: RoHS00015810107</p> <p>Serial Number Information: YEAR, WEEK, Class NO for production</p>	Serial Number Information
 IEC/EN60601-1	SIQ Mark License EN60601-1, 3rd edition
	UKCA Certification
 10276	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)

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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