

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

Model:GTM21089-WWVV-W2

April 15, 2021

GTM21089-WWVV-W2

Information

Model Number	GTM21089-WWVV-W2
Description	GTM21089-WWVV-W2, Medical Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 19 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: VCCI; CE; cUR; China RoHS; WEEE; Double Insulation; RoHS;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM21089/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O30000007P7Z6EAK
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O30000007P7Z6EAK
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

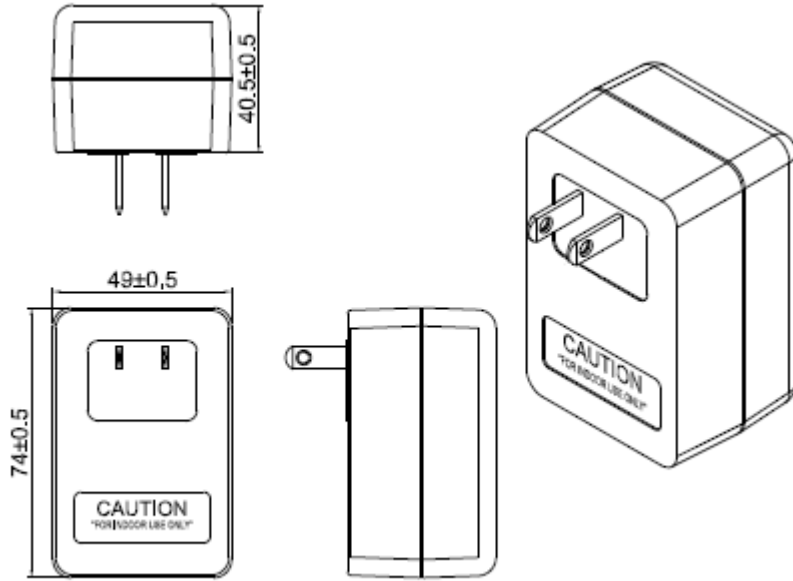
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.5A MAX
Wattage (W)	19.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	IP40
Size (mm)	74*49*40.5 + 0.5

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM21089-0903-W2	3.3 V	2.6	8.58	RFQ
GTM21089-1305-1.0-T3	4 V	2.6	10.40	RFQ
GTM21089-1305-W2	5 V	2.6	13.00	RFQ
GTM21089-1506-W2	6 V	2.5	15.00	RFQ
GTM21089-1509-W2	9 V	1.7	15.30	RFQ
GTM21089-1512-W2	12 V	1.25	15.00	RFQ
GTM21089-1815-W2	15 V	1.2	18.00	RFQ
GTM21089-1818-W2	18 V	1	18.00	RFQ
GTM21089-1824-W2	24 V	0.75	18.00	RFQ
GTM21089-1848-15-W2	33 V	0.54	17.82	RFQ
GTM21089-1836-W2	36 V	0.5	18.00	RFQ
GTM21089-1948-W2	48 V	0.39	18.72	RFQ

SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: 90-264 Vac
02. INPUT CURRENT: <0.5Arms AT 90Vac INPUT
03. Input Frequency: 47 - 63 Hz
04. Output Regulation: +/- 5% measured at the output connector, no minimum load required
05. Line Voltage Regulation: +/- 1% typical measured at full load
06. 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
07. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
08. Turn-ON Delay: 1 Sec, typical
09. Hold-Up Time: 10 mS typical @ nominal input voltage and full load
10. Inrush Current: 30A maximum cold start @ 240Vac input
11. Switching Frequency: 100 KHz typical, varies with line and load
12. Efficiency: 75% typical at nominal input and full load

B) PROTECTION

01. Over-Voltage: Limited via crowbar method
02. Short Circuit: Momentary short circuit protected with auto recovery upon removal of short
03. Over-load: Hiccup with auto recovery
04. Input Protection: Input line and neutral fusing

C) SAFETY

01. Dielectric Withstand Voltage: 5656vdc from primary to secondary
02. Type of protection against electric shock: class II
03. Degree of protection against electric shock: not classified (no applied part)
04. Degree of protection Against ingress of water: IPXO (ordinary)
05. Degree of safety of application in the presence of flammable anesthetic: not evaluated Mode of operation: continuous
06. 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. Storage Temperature: -10°C to 80°C
04. Humidity: 0% to 90% relative humidity

E) ENCLOSURE

1. Upper Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Lower Housing: High impact plastic, 94V0 polycarbonate, non-vented
3. Size: 74*49*40.5 + 0.5 mm +/-1.0

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DERATING CURVE

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INPUT CONFIGURATION

Description	NEMA 1-15P, North America Blades, Class II 2 Conductors
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All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.

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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
	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 11363-2006, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	UR 60601-1, File #E172861 or Optional E341350, 1st Edition, 2006-04-26 CAN/CSA-C22.2 No. 601.1-M90, 2005
	
	Indoor Use Only - Mark is on the label or Molded in the case
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
	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