

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

Model:GTM41078-WWVV-X.X-USB

June 6, 2020

USB charger power supply AC adapter certified to 60601-1 Medical Grade , 6W

Information

Model Number	GTM41078-WWVV-X.X-USB
Description	60601-1 certified Medical USB wall plug in charger power supply with integrated USB receptacle, available in outputs from 5-6VDC. Changeable input plugs available for North America, Europe, United Kingdom, Australia, China, Korea, Argentina, Brazil

Model Picture



Agency Documents	http://www.globtek.info/certs/GTM41078-USB/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000HThBrEAL
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000HThBrEAL
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

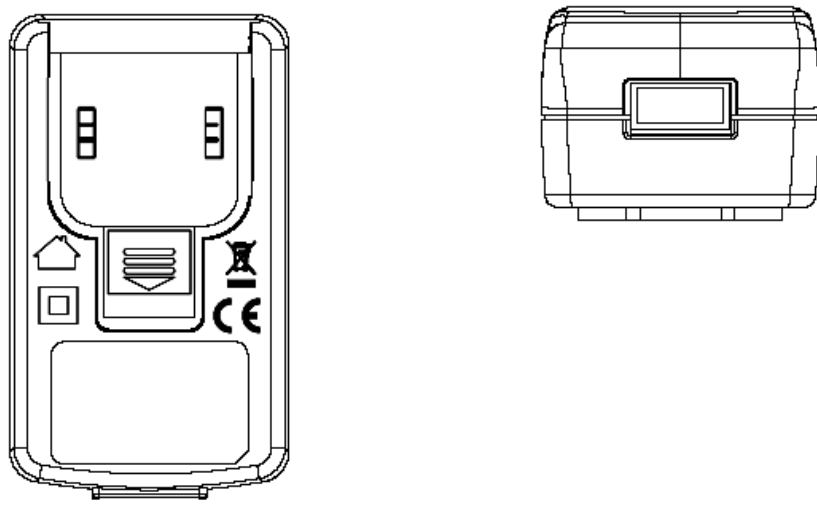
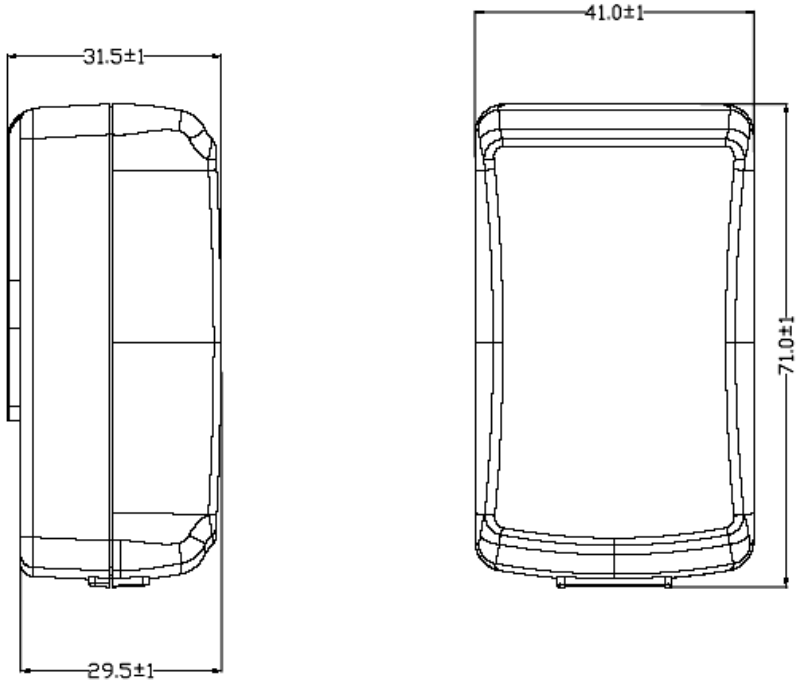
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.3A
Wattage (W)	6.0
Vout Range (V)	5
Efficiency Level	V
Ingress Protection	Indoor Use
Size (mm)	41.0 x 71.0 x 31.5

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM41078-0505-USB	5 V	1	5.00	RFQ
GTM41078-0605-USB	5 V	1.2	6.00	RFQ
GTM41078-0506-0.8-USB	5.2 V	1.15	5.98	RFQ
GTM41078-0506-USB	6 V	0.83	4.98	RFQ
GTM41078-0506-USB	6 V	0.83	4.98	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

1. Input Voltage: Specified 90-264 Vac, Nameplate rated 100-240 Vac
2. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60 Hz
3. Output Power (Rated): 6Watts maximum
4. Output Regulation: +/- 5% measured at the output connector measured at the end of a 1 meter USB cordset employing #22 Gauge conductors
5. Line Voltage Regulation: +/- 1% typical measured at the output connector measured at the end of a 1 meter USB cordset employing #22 Gauge conductors
6. Output Ripple (Vp-p): +/-1% or 100 mV whichever is greater measured at the end of a 1 meter USB cordset employing #22 Gauge conductors. Measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector.
7. Turn-On/Turn-Off Overshoot: 5% maximum, 500 us maximum recovery time for 25% step load.
8. Turn-On Delay: 3000 mSEC maximum
9. Hold-Up Time: 8mSec maximum at nominal input and full load.
10. Inrush Current: 30A typical @ 115Vac input ; 60A typical @ 230Vac input
11. Switching Frequency: 66.5 KHz typical

B) PROTECTION

1. Over-Voltage Protection: 110% to 140% of nominal output voltage: Protected unit will recover upon removal of fault
2. Short Circuit: Electronically Protected, unit will recover upon removal of fault
3. Input Protection: Input line fusing

C) SAFETY

1. Dielectric Withstand Voltage: 5656Vdc 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)
4. Means of Protection: 2 x MOPP
5. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

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 95% relative humidity
4. Storage Temperature: -40°C to 80°C

E) ENCLOSURE

1. Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Size: 41.0 x 71.0 x 31.5 mm +/-1.0 mm
3. Markings: Label and/or Pad Printed and/or Molded in the case

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DERATING CURVE

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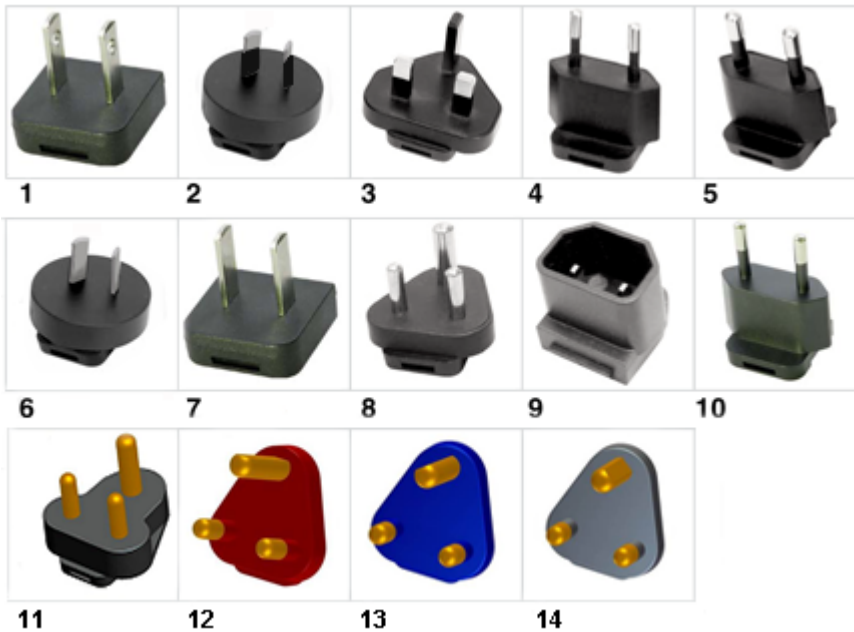
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INPUT CONFIGURATION

Description Blade Options for Q Series Wall Plug-in Power Supplies

 Data Sheet: <http://en.globtek.com/interchangeable-blades.php>

 Insertion Instructions: <http://www.globtek.com/pdf/Instructions-Interchangeable-Blades.pdf>

 Video: [Q-Blade Style Instruction Video](#)


INPUT CONNECTOR: Q-Socket (below are available blades configurations which are "not included" (unless stated above); can be purchased separately, package with power supply or as a separate "Q-KIT" if specified

01. United States / Canada / Japan NEMA 1-15P/IEC PLUG A[WORKS IN PLUG B] configuration: NA 2 blades, Class II; US/CA/JP P/N: Q-NA(R)
02. Australian AS 3112 configuration: SAA 2 blade/IEC TYPE I, Class II; AU P/N: Q-SAA(R)
03. UK BS 1363 configuration: UK 3 blade with dummy Ground/IEC TYPE G, Class II; GB P/N: Q-UK(R)
04. European CEE 7/16 configuration: Europlug 2 pins/IEC TYPE C [WORKS IN TYPE E&F], Class II; EU P/N: Q-EU(R)
05. Korean KS C8305 configuration: 2 pins/SIMILAR TO IEC TYPE C, Class II; KR P/N: Q-KR(R)
06. Argentina IRAM 2073 configuration: 2 blades/SIMILAR TO IEC TYPE I; AR P/N: Class II Q-AR(R)
07. China GB 2099 configuration: 2 blades/SIMILAR TO TYPE A, Class II; CN P/N:Q-CN(R)
08. India IS 1293 6A/BS546 configuration: 5A, 3 pins with Dummy Ground, Class II/IEC TYPE D; IN P/N: Q-IN(R)
09. IEC320/C18 Inlet, Class II; P/N: Q-C18(R)
10. Brazilian NBR6147 configuration: 2 pins, Class II;SIMILAR TO IEC TYPE C BR P/N: Q-BR(R)
11. South Africa SABS164-1, 3 round prongs, Class II + dummy ground, IEC TYPE M P/N: Q-SANS164-1-16A(R)
12. South Africa SABS164-4, 3 round prongs with a notched prong @ 0°, Class II + dummy ground, IEC TYPE M Red, P/N: Q-SANS164-4L-16A(R)
13. South Africa SABS164-4, 3 round prongs with a notched prong @ -53°, Class II + dummy ground, Blue, IEC TYPE M,

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<http://en.globtek.com/datasheet/id/a0Oa000000HThBr>

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P/N:
Q-SANS164-4C-16A(R)
14. South Africa SABS164-4, 3 round prongs with a notched prong @ +53°, Class II + dummy ground, Black,IEC TYPE M
P/N:
Q-SANS164-4R-16A(R)

Kits

01. Q-KIT: 1,2,3,4 above
02. Q-KIT-INTL: 2,3,4 above
03. Q-KIT-6: 1,2,3,4,5,6 above
04. Q-KIT-7: 1,2,3,4,5,6,7 above
05. Q-KIT-8: 1,2,3,4,5,6,7,8 above

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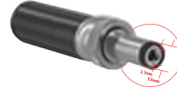
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OUTPUT CONFIGURATION

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
 R32282	Taiwan BSMI 5V design only; http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=8167=2
No Logo Applicable	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:2006 3.1rd Edition 2xMOPP (for GTM41078-WW05 only)
No Logo	CB Report IEC60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011 (for GTM41078-WW05 only)
	CCC to GB4943.1-2011; GB/T9254-2008 GB17625.1-2012, Tropical <2000
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - Mark is on the label or Molded in the case
Conforms to ANSI/AAMI ES 60601-1:2005 Cert.to CAN/CSA Std. C22.2	cETLus ANSI_AAMI ES60601-1_2005 (for GTM41078-WW05 only)
Conforms to ANSI/UL Std. 60950-1 Cert.to CAN/CSA Std. C22.2 NO. 60950-1	Conforms to ANSI/UL Std. 60950-1 2nd Edition Cert. to CAN/CSA Std.C22.2 NO.60950-1 2nd Edition (for GTM41078-WW05 only)
	cETLus-Cert-4007497 ANSI/AAMI ES60601-1:2005 with AMD C1: 2009, AMD C2: 2010 and CAN/CSA-C22.2 No. 60601-1 2008 with COR 2:2011(for GTM41078-WW05 only)
	cETLus-Cert-60950-1 4007497 Listed (for GTM41078-WW05 only)
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php

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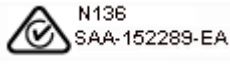






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	Certification # TC RU AR46.B.69004 Custom Union of Russia, Belarus and Kazakhstan
No Logo	EC-Conformity Declaration: http://www.globtek.com/html/iso_certificates/EC-DECLARATION.pdf , REACH 144 SVHC: http://www.globtek.com/html/iso_certificates/Reach144.pdf
	Indoor Use Only - Mark is on the label or Molded in the case
IP20	Ingress Protection: IP20 to IEC60529:2001 Protected against solids objects over 12mm and No Protection
 DC-E-G71-001.10	IRAM certificate DC-E-G71-001.10 to IEC 60950-1:2005 + A1:2009
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50315169, to J60950-1(H26) , J55022(H22),[15V or less]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50315169, to J60950-1(H26) , J55022(H22),[15V or less]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
	HU10499-15021A GTM41078-0605-USB (5V only)
No Logo	Kuwait GTM41078-0605-USB IEC 60950-1:2005(2 ND EDITION) + Am 1:2009 + Am 2:2013
EFFICIENCY LEVEL 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
LPS	Limited Power Source 60950

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	NOM (ETL) to NOM-001-SCFI-1993 (5 Volts only)
 GlobTek, Inc.	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 .
	RCM certificate to SAA152289EA ; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm)
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
	Semko S-Mark-Cert-EN60601-1 3rd Edition (http://www.intertek.com/marks/s/) (for GTM41078-WW05 only)
إمدادات الطاقة	Saudi Arabia approval GTM41078-0605-USB IEC 60950-2005
	Serbia Approval - Conformity mark must be at least 5 mm high.
	SGS (Brazil) to IEC 60950-1_2005(ed.2) + A1 2009 +A2 2013 EN60950-1:2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013
No Logo	12
	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.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