

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

Model:GTM41060-WWVV-Q-IM

June 4, 2020

## GTM41060-WWVV-Q-IM

### Information

Model Number	GTM41060-WWVV-Q-IM
Description	GTM41060-WWVV-Q-IM, ITE / Medical Power Supply, 60601-1-4th Ed. , Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Blade Options for Q Series Wall Plug-in Power Supplies, Output Rating: 25 Watts, Power rating with convection cooling (W) , 3.0-30V in 0.1V increments, Approvals: cUR; Belarus; EAC; RCM; CE; Book 60601; CB 60601-1; CE; CE; China RoHS; Israel; cUR; Double Insulation; FCC; IP52; Level IV 1meter 115; NrCAN; PSE; RoHS; SIQ; Ukraine; VCCI; WEEE; Taiwan BSMI; CB 60950; CCC; cULus; IRAM; Korea (12V Only); LPS; NEMKO 60950; PSE; 2MOPP;
Model Picture	
Agency Documents	<a href="http://www.globtek.info/certs/GTM41060/">http://www.globtek.info/certs/GTM41060/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a00a000000Mi5pJEAR">https://www.globtek.com/pdf/ec_declaration/a00a000000Mi5pJEAR</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a00a000000Mi5pJEAR">https://www.globtek.com/pdf/rohs_cert/a00a000000Mi5pJEAR</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**

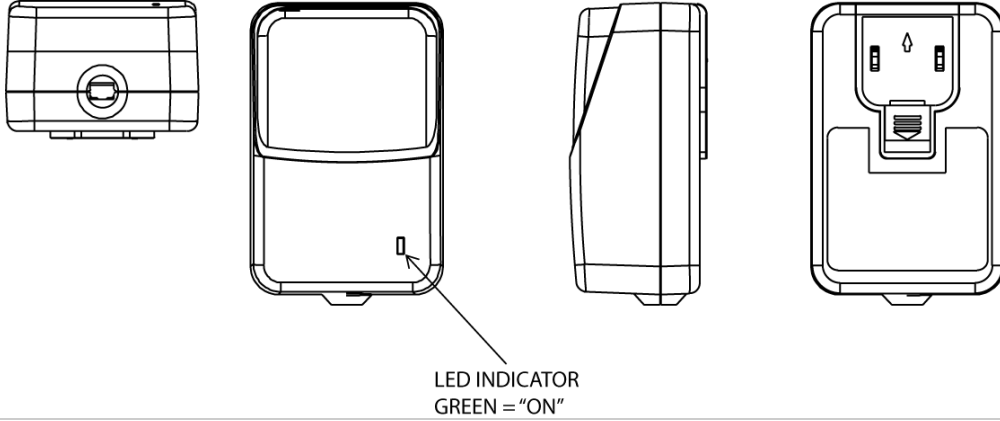
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	25.0
Vout Range (V)	3.0-30
Efficiency Level	IV
Ingress Protection	IP40
Size (mm)	

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## ENCLOSURE



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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM41060-2512-IM	12 V	2.08	24.96	<a href="#">RFQ</a>
GTM41060-2515-IM	15 V	1.67	25.05	<a href="#">RFQ</a>

## 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% of nominal output voltage
04. Line Voltage Regulation: +/- 1% maximum at full load
05. Output Ripple (Vp-p): 1% or 150 mV whichever is greater 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
06. Turn-On/Turn-Off Overshoot: 5% maximum, 500uS maximum recovery time for 25% to 50% step load
07. Turn-On Delay: 3000mSEC maximum at full load, 115VAC
08. Hold-Up Time: 10mS minimum at nominal input and full load
09. Inrush Current: 30A maximum at cold start 120VAC and 60A maximum cold start at 230 VAC
10. Switching Frequency: 66.5 KHz typical
11. Current Limited Option: Models numbers containing CC are "Current Limited" to rated output current with a tolerance of +/-10%

### B) PROTECTION

1. Over-Voltage: Protected, unit will recover upon removal of fault
2. Over-Load: Protected, unit will recover upon removal of fault
3. Short Circuit: Protected, unit will recover upon removal of fault
4. No load power consumption: Meet Energy Star level IV, 115Vac
5. 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: 2MOPP

### D) OTHER:

1. MTBF: 200,000 hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature  
Optional Operating Temperature: -5°C to 40°C ambient temperature (RFP4385)
3. Humidity: 0% to 90% relative humidity
4. Storage Temperature: -10°C to 80°C
5. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006
6. Ingress protection(employed)(not employed): IP52 to IEC60529:2001 Protected against dust - limited ingress (no harmful deposit) and Protected against direct sprays up to 15o from the vertical

### E) ENCLOSURE

1. Upper Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Lower Housing: High impact plastic, 94V0 polycarbonate, non-vented
3. Size: 84.0\* 56.0\*37.9 mm +/-1.0
4. Green LED indicator for power "Power On"

#### PROPRIETARY INFORMATION

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<http://en.globtek.com/datasheet/id/a0Oa000000Mi5pJ>

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## DERATING CURVE

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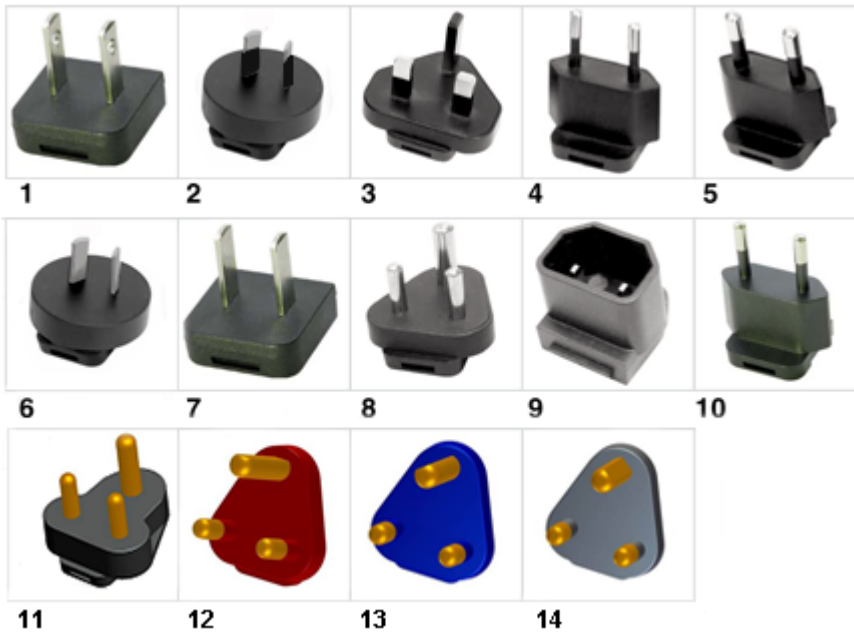
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**INPUT CONFIGURATION**

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,

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<http://en.globtek.com/datasheet/id/a0Oa000000Mi5pJ>

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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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**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
2MOPP	2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name
	Belarus certificate JI By/I 12 03. 1 I . 020 05936 only for GTM41060-2512 and GT-41060-2512
	60601-1 3rd Operating Instructions
 R32282 RoHS (Pb)	Taiwan BSMI (12V designs only); <a href="http://www.bsmi.gov.tw/wSite/ct?xItem=4072&amp;ctNode=8167=2">http://www.bsmi.gov.tw/wSite/ct?xItem=4072&amp;ctNode=8167=2</a>
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
No Logo Applicable	CB report 60950-1 2nd Ed
	CCC to GB4943.1-2011; GB/T9254-2008 GB17625.1-2012, Tropical <2000
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	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

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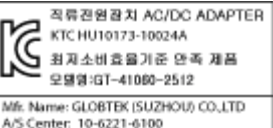






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	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
	ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012, CSA CAN/CSA-C22.2 NO. 60601-1:14
	UL60950-1, cULus to UL 60950-1, 2nd Edition, 2007-03-27 and CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03
	UR 60601-1, 3rd Edition, CAN/CSA-C22.2 No. 601.1-1
	Certification # TC RU 0585806 Custom Union of Russia, Belarus and Kazakhstan
	FCC PART 15 CLASS B
	Indoor Use Only - Mark is on the label or Molded in the case
IP52	Ingress Protection: ?IP52 to IEC60529:2001 Protected against dust - limited ingress (no harmful deposit) and Protected against direct sprays up to 15 degrees from the vertical
 DC-E-G71-002.1 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-002.1 to IEC 60950 + A1:2009
ITE כוּחַ פּוֹק	Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS Of Israel Standard SI 60061 Part 1 – Medical equipment: General requirements for basic safety and essential performance, Mar. 2008. (5 Volts Only)

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 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50314327, to J60950-1(H26) , J55022(H22),J3000(H25) [15V?30V]. Please reference the following website for guidelines on 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 50314327, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on 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>
 직류전원장치 AC/DC ADAPTER KTC HU10173-10024A 최저소비효율기준 만족 제품 모델명:GT-41060-2512 Mfg Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center: 10-6221-6100	Korea KET KC Mark GT-41060-2512 HU10173-10024A (12V Only)
<b>EFFICIENCY LEVEL (IV) 115V</b>	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) exception 5.1~6.9V require 1000 mm output cable
LPS	Limited Power Source GT-41060 9 - 30 volts only
	NEMKO EN60950-1:2006, A11, A1, A12,A2
 EEV1191	Natural Resources Canada (NRCAN): CSA Standard C381.1-08, QSP NRCAN EEV1191; <a href="http://shop.csa.ca/en/canada/energy-efficiency/canca-c381-1-08/inv/27024802008">http://shop.csa.ca/en/canada/energy-efficiency/canca-c381-1-08/inv/27024802008</a>
	Australia and New Zealand Regulatory Compliance, Mark ( <a href="http://rcm.standards.org.au/rcmfaq/rcmfaq.htm">http://rcm.standards.org.au/rcmfaq/rcmfaq.htm</a> )
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>
	IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 (or IEC 60601-1: 2012 reprint)
 10276	Ukraine UKRSepto (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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	<p>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</p>
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