

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

Model:GTM41080-18VV H/M

July 25, 2021

GTM41080-18VV H/M

Information

Model Number

GTM41080-18VV H/M

Description

GTM41080-18VV H/M, ICT / ITE / Medical Power Supply/Class 2/Household 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: 18 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: UKCA; CB EN/IEC 60335-1; CB 60601-1; EAC; Ukraine; VCCI; WEEE; Double Insulation; PSE; S-Mark IEC/EN 60601-1; cETLus 60601-1 3rd; RoHS; Fuse 60335; Fuse 60335; NEMKO EN/IEC 60335-1; Book 60601; Level V; cETLus ES60601; China RoHS; cETLus UL1310; IP52; CB60950; CCC; CB EN/IEC 60335-1; CE; ST-Malaysia; CB 60601-1; CE; India BIS;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM41080/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a00a000000c147sear

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a00a000000c147sear

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

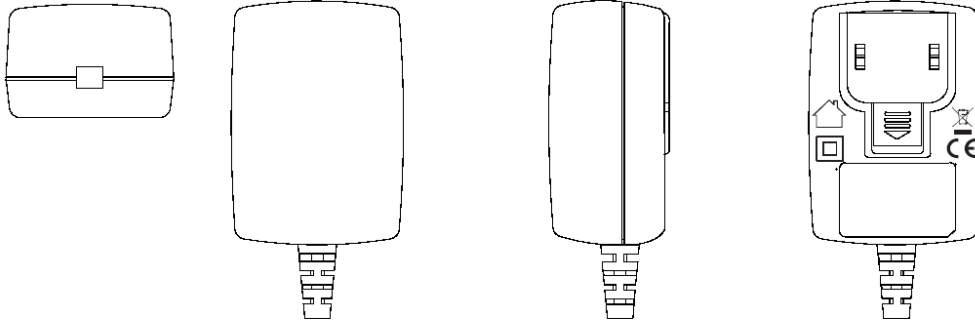
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	18.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	IP52
Size (mm)	74*44*34

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM41080-1807-2.0 .	5 V	3	15.00	RFQ
GTM41080-1807-2.0	5 V	3.6	18.00	RFQ
GTM41080-1507-2.0	5 V	3	15.00	RFQ
GTM41080-1007-2.0	5 V	2	10.00	RFQ
GTM41080-1507-1.8	5.2 V	3	15.60	RFQ
GTM41080-1507-1.5	5.5 V	2.72	14.96	RFQ
GTM41080-1207-1.0	6 V	2	12.00	RFQ
GTM41080-1507-1.0	6 V	2.5	15.00	RFQ
GTM41080-1507-0.5	6.5 V	2.76	17.94	RFQ
GTM41080-1807	7 V	2.57	17.99	RFQ
GTM41080-1811-2.0	9 V	2	18.00	RFQ
GTM41080-1811-1.7	9.3 V	1.94	18.04	RFQ
GTM41080-1511-1.0	10.15 V	1.5	15.23	RFQ
GTM41080-1811	11 V	1.67	18.37	RFQ
GTM41080-1817.9-5.9	12 V	1.5	18.00	RFQ
GTM41080-1817.9-2.9	15 V	1.2	18.00	RFQ
GTM41080-1817.9-2.0	15.9 V	1.13	17.97	RFQ
GTM41080-1817.9	17.9 V	1	17.90	RFQ
GTM41080-1830-12.0	18 V	1	18.00	RFQ
GTM41080-1830-11.0	19 V	0.94	17.86	RFQ
GTM41080-1830-6.0	24 V	0.75	18.00	RFQ
GTM41080-1830	30 V	0.6	18.00	RFQ
GTM41080-1838-6.0	32 V	0.56	17.92	RFQ
GTM41080-1838-2.0	36 V	0.5	18.00	RFQ
GTM41080-1838	38 V	0.47	17.86	RFQ

PROPRIETARY INFORMATION

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GTM41080-1848	48 V	0.375	18.00	RFQ
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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 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 the output connector at nominal line
06. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% to 50% step load
07. Turn-ON Delay: 3000 mS, maximum @ full load, nominal line
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A maximum cold start @ 240Vac input
10. Switching Frequency: 65 KHz typical
11. Efficiency: Compliant with Worldwide Level V standards.
12. No Load Standby Power: <0.3 W

B) PROTECTION

01. Over-Voltage: Electronically Protected Zener clamp across the output
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
04. Input Protection: Input line and neutral fusing

C) SAFETY

01. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
02. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
03. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
04. Means of Protection: 2 x MOPP
05. Primary to Secondary Bridging Capacitor: (2) * Y1 type capacitors in series

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 and China SJ/T 11363-2006

E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 43.5 x 74.0 x 35.3 +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

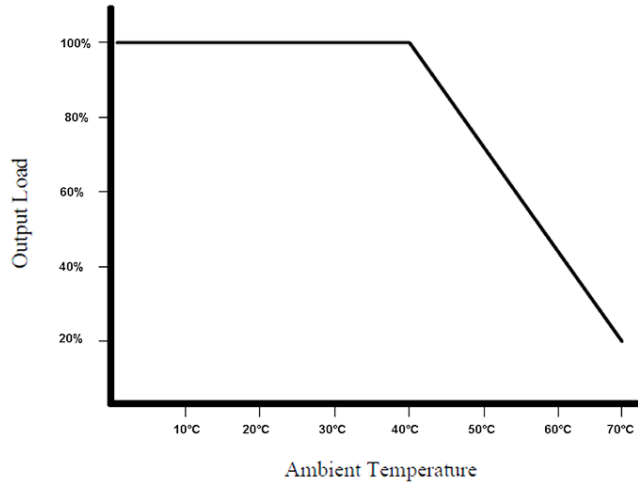
* 5Vdc USB output connector power supplies, which use the Micro-B or C-type style connector, have a max output voltage regulation specification of +/-8% (4.6V to 5.4V range).

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DERATING CURVE



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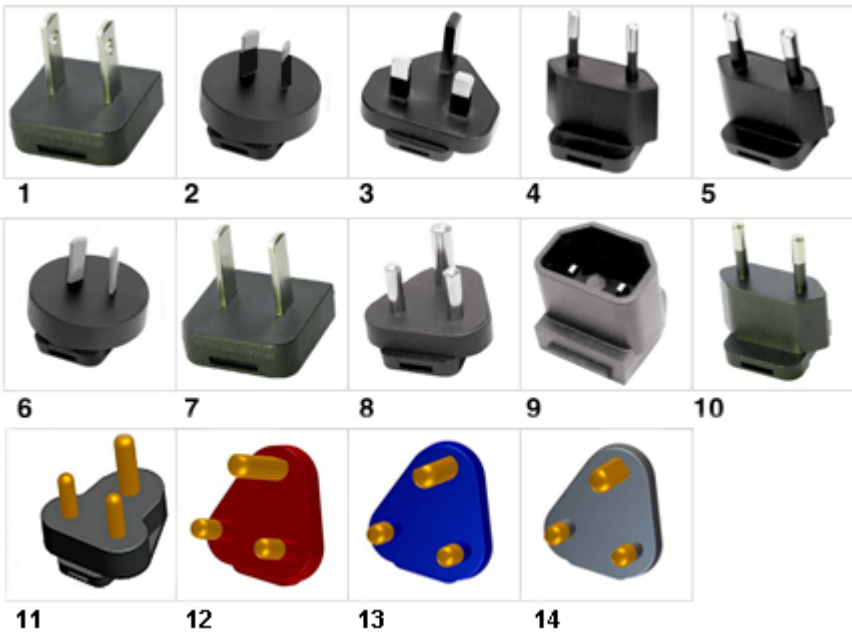
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INPUT CONFIGURATION

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 Type 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. IEC60320/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 and India IS 1293, IS694, 16A type plug, 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)

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<https://en.globtek.com/datasheet/id/a00a000000c147s>

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13. South Africa SABS164-4, 3 round prongs with a notched prong @ -53°, Class II + dummy ground, Blue, IEC TYPE M,
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
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
No Logo Applicable	CB to IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 (or IEC 60601-1: 2012 reprint)
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011
No Logo Applicable	CB to 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
No Logo Applicable	CB to 60335-1 5th Edition (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) CB Report/ Certificate IEC 60335-1:2010 Up to 36 volts only
No Logo Applicable	CB to 60601-1 3rd Edition 2xMOPP, CB Certificate: IEC 60601-1:2005, CB report: IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and EN 60601-1:2006
	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 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

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 Intertek Class 2 Power Unit	cETLus-Cert 4007497 UL1310 Recognized Component up to 36 volts
	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+ANSI/AAMI HA60601-1-11 Ed:1
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	
	Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
T1.6A 250VAC 	Fuse 60335 T1.6A 250VAC Up to 36 volts
IS 13252 (Part 1) IEC 60950-1  R-41017175 www.bis.gov.in	Bureau Of Indian Standards for GTM41080-1817.9-5.9, GTM41080-1507 -2.0, GTM41080-1507-1.0, GTM41080-1811-2.0, GTM41080-1817.9-2.9, GTM41080CC1017.9-2.9, GTM41080-1830-12.0, GTM41080-1830-6.0, GTM41080-1838-2.0, GTM41080-1848
	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
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)

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 IEC/EN60335-1	NEMKO IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 Volts
 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 .
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
 Intertek IEC/EN60601-1	Semko S-Mark-Cert-EN60601-1 3.1rd Edition (http://www.intertek.com/marks/s/)
No Logo	ST-Malaysia GTM41080-18VV H/M
	UKCA Certification
 10276	Ukraine UKRSepro (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