

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

Model:GT-46060-06VV-x.x-Q

August 17, 2019

DOE EPS 2.0 Level VI Power Supply / Charger / AC Adapter, 6W, Available with 5-24VDC output

Information

Model Number GT-46060-06VV-x.x-Q

Description GT-46060-06VV-x.x-Q, ITE Power Supply, 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: 6 Watts, Power rating with convection cooling (W) , 5-24V in 0.1V increments, Approvals: RCM; 230V CoC Tier 2; EAC; BIS; FCC; SGS (GS); CE; CE; China RoHS; Double Insulation; IP40; Level VI; LPS; PSE; RoHS; Ukraine; VCCI; WEEE; cULus; CB 60950; CCC; PSE; PSE; PSE; CAN ICES-3; Korea (9V, 12V, 15V Only);

Model Picture



Agency Documents <http://www.globtek.info/certs/GT-46060-06VV-X.X/>

CE Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000MF1MaEAL

RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000MF1MaEAL

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

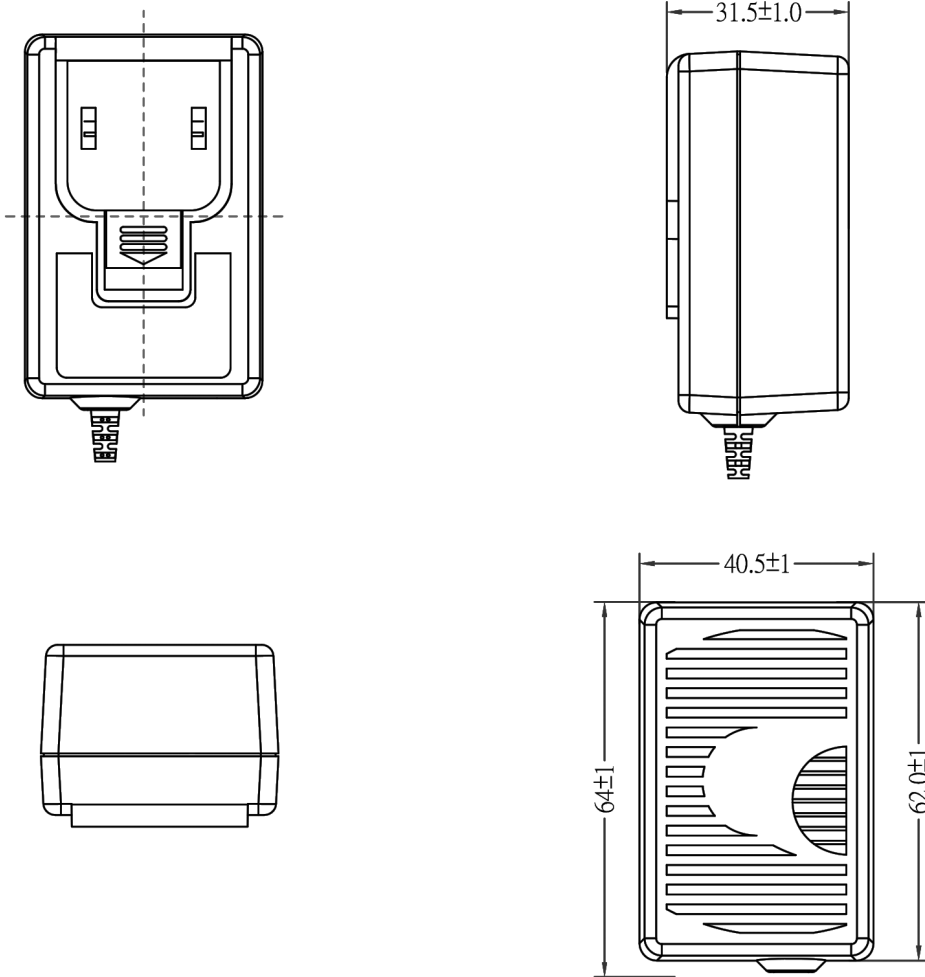
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.3 A
Wattage (W)	6.0
Vout Range (V)	5-24
Efficiency Level	VI
Ingress Protection	Indoor Use
Size (mm)	40.5*64.0*30.0

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-46060-0405-1.5	3.5 V	1	3.50	RFQ
GT-46060-0605	5 V	1.2	6.00	RFQ
GT-46060-0606-0.055	9.5 V	1	5.95	RFQ
GT-46060-0609-2.5	6.5 V	0.92	5.98	RFQ
GT-46060-0609-2.0	7 V	0.857	6.00	RFQ
GT-46060-0609-1.5	7.5 V	0.8	6.00	RFQ
GT-46060-0609-1.0	8 V	0.75	6.00	RFQ
GT-46060-0609	9 V	0.67	6.03	RFQ
GT-46060-0612-3.0	9 V	0.66	5.94	RFQ
GT-46060-0612-2.0	10 V	0.6	6.00	RFQ
GT-46060-0612-1.0	11 V	0.545	6.00	RFQ
GT-46060-0612	12 V	0.5	6.00	RFQ
GT-46060-0615-2.0	13 V	0.461	5.99	RFQ
GT-46060-0615-1.5	13.5 V	0.44	5.94	RFQ
GT-46060-0615-1.0	14 V	0.428	5.99	RFQ
GT-46060-0615	15 V	0.4	6.00	RFQ
GT-46060-0618-2.0	16 V	0.375	6.00	RFQ
GT-46060-0618-1.0	17 V	0.353	6.00	RFQ
GT-46060-0618	18 V	0.33	5.94	RFQ
GT-46060-0624-5.0	19 V	0.315	5.99	RFQ
GT-46060-0624-4.0	20 V	0.3	6.00	RFQ
GT-46060-0624-3.0	21 V	0.285	5.99	RFQ
GT-46060-0624-2.0	22 V	0.272	5.98	RFQ
GT-46060-0624-1.0	23 V	0.26	5.98	RFQ
GT-46060-0624	24 V	0.25	6.00	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. Inrush Current: No damage. On power when switching on/off repeatedly under any condition.
04. Average Efficiency: 75% Min. (CEC & DOE LEVEL VI Compliant), 75.1% Min. (ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant)
05. Input power(no load): < 0.1W (CEC & DOE LEVEL VI Compliant), <0.075W (ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant)
07. Output Voltage tolerance: $\pm 5\%$
08. Line regulation: $\pm 3\%$
09. Ripple Voltage: 150mV (p-p): Input :(100V-240VAC), Output:full load
10. 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

B) PROTECTION

01. Over voltage protection: Output shut down and auto restart
02. Short circuit protection: Output shut down and auto restart
03. Insulation resistance: Input to output: 500Vdc to test the input to output resistance not be less 100M Ohm

C) SAFETY

01. HI-POT : Input to output : 3000VAC or 4242VDC 10mA 1 minute
02. Touch Current: <0.25mA @ 240Vac input voltage

D) EMC

01. Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4
 - Conducted Emissions: Class B, FCC Part 15, Class B
 - Radiated Emissions: Class B, FCC Part 15, Class B
02. Line Frequency Harmonics EN61000-3-2, Class A
03. Voltage Fluctuations/Flicker EN61000-3-3
04. Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
 - Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
 - Radiated RF Immunity EN61000-4-3, 3V/m 80-1000MHz, 80% 1KHz AM.
 - EFT/Burst Immunity EN61000-4-4, 1kV/100kHz.
 - Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode
 - Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
 - Power Frequency Magnetic Field Immunity EN61000-4-8, 1A/m
 - Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity Operating : 20% to 80%. 0% to 90% relative humidity
04. Storage Temperature: -10°C to 70°C
 - Humidity Storage: 10% to 90%
05. RoHS 2: Complies with EU 2011/65/EU and China SJ/T 11364-2014

F) ENCLOSURE**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/a0Oa000000MF1Ma>

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01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 40.5 x 64.0 x 30.0 +/-1.0 mm
03. Weight : 68.5 g
04. Markings: Label and/or Pad Printed and/or Molded in the case

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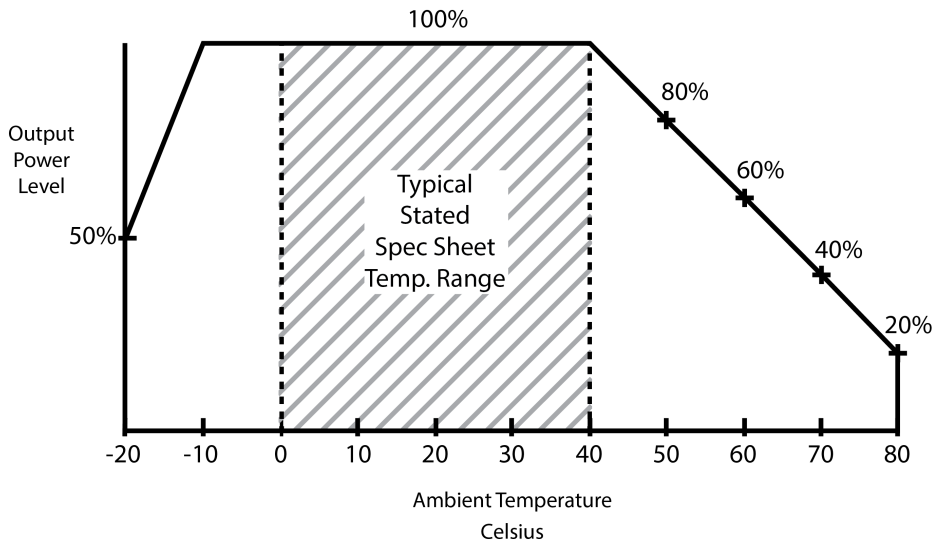
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DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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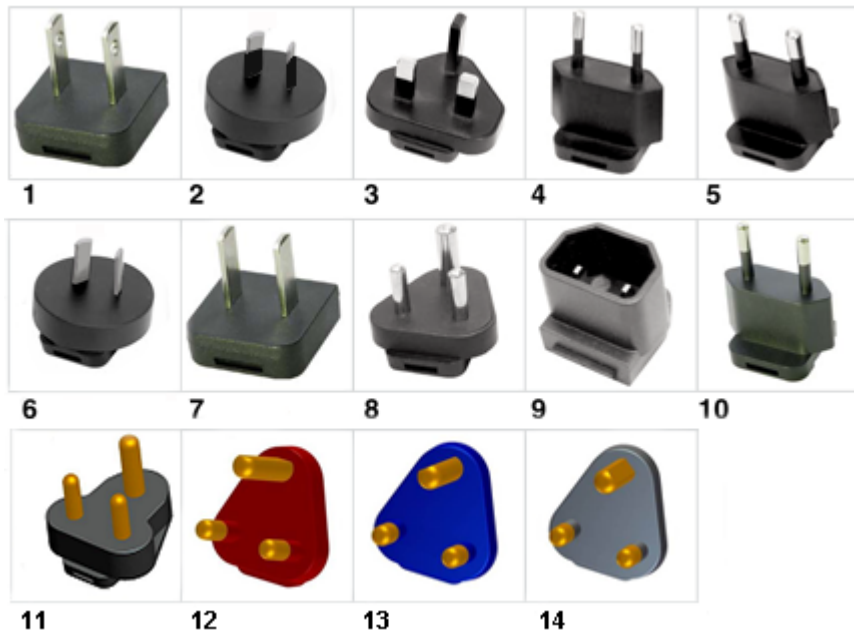
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Input Configuration

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)

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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](#)









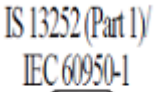




Contact GlobTek for your specific requirements or custom solutions.

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Approvals

Logo	Description
No Logo Applicable	EU 230V CoC Tier 2, 278/2009, Mar 2014
No Logo	CB Certificate IEC 60950-1:2005 2nd Edition + A1:2009 +A2:2013 Report to EN 60950-1:2006 +A11:2009 +A1:2010 + A12:2011 +A2:2013 For 5V-24V only
	CCC to GB4943.1-2011; GB/T9254-2008 GB17625.1-2012, Tropical <2000, GT-46060-Q
	CE Certification Class II
	CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 55024.2010
	CE Mark: tested to comply with EN55022:2010 Class B, EN61000-3-2, EN61000-3-3 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
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	UL60950-1, cULus to UL 60950-1, 2nd Edition, 2014-10-14 and CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10
	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with a standard output load. The FCC law stipulates that system-level testing is required to demonstrate compliance with the FCC emission limits with the actual system load.
<i>CAN ICES-3(B)/NMB-3(B)</i>	Compliance of this PSU with Industry Canada, Class B demonstrated with a standard output load. The ICES law stipulates that system-level testing is required to demonstrate compliance with the ICES-3 emission limits with the actual system load.
	
	INDIA BIS (GT-46060)
	
	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 (with I/P cord)
	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:
GlobTek, Inc.	http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/

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	JAPAN TUV R-PSE, Cert. No. JD 50315866, 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 50315866, to J60950-1(H26) , J55022(H22),[DC15V?30V]. 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.	
 직류전원장치 AC/DC ADAPTER KTC HU10499-16026A 전기용품안전관리법에 의한 표시 모델명:GT-46060-0609 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
 직류전원장치 AC/DC ADAPTER KTC HU10499-16026A 전기용품안전관리법에 의한 표시 모델명:GT-46060-0615 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea KC GT-46060-0612 (9V, 12V, 15V Only)
 직류전원장치 AC/DC ADAPTER KTC HU10499-16026A MSIP-REM-GSZ-GT-46060-0612 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명:GT-46060-0612 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
EFFICIENCY LEVEL (VI)	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
	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
GlobTek, Inc.	
	RCM certificate SAA-152440-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcmstandards.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
	EN 60950-1:2006+A11+A1+A12+A2 AFPS GS 2014:01 PAK
	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 (

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http://ec.europa.eu/environment/waste/weee/index_en.htm

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