

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

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

January 23, 2022

## 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, ICT/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 3.5,5,5.95,8,9,12,13.5,15,24V; UKCA; GEMS (12V); BIS 6.5V; cETLus 62368-1; NRCAN (5.95V only); CB 62368; BIS 6.5V, 7V, 7.5V, 8V, 9V, 13V, 13.5V, 16V,18V, 19V 20V only; FCC; CE; CE; China RoHS; Double Insulation; IP40; LevelVI; LPS 60950; PSE; RoHS; Ukraine; VCCI; WEEE; cULus; CB 60950; CCC; cULus; 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 EC-Declaration**
[https://www.globtek.com/pdf/ec\\_declaration/a00a000000MF1MaEAL](https://www.globtek.com/pdf/ec_declaration/a00a000000MF1MaEAL)
**RoHS/RoHS2 Declaration**
[https://www.globtek.com/pdf/rohs\\_cert/a00a000000MF1MaEAL](https://www.globtek.com/pdf/rohs_cert/a00a000000MF1MaEAL)
**REACH Declaration**
[https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](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**

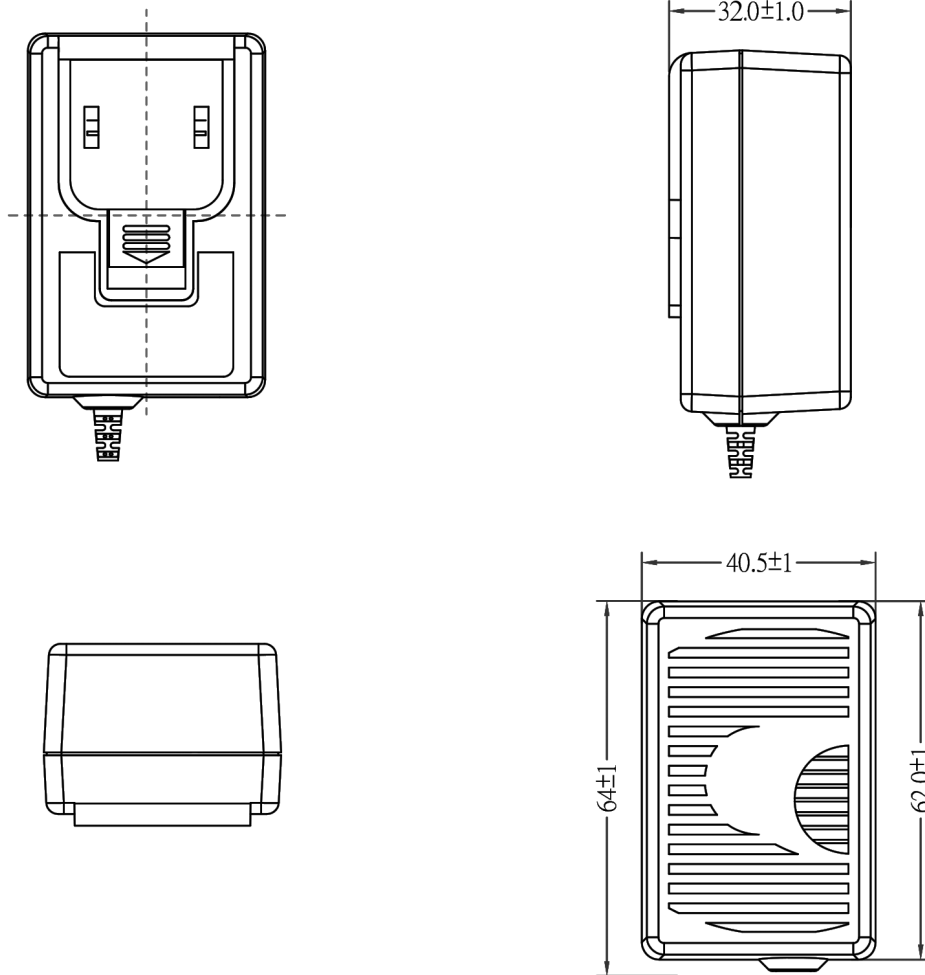
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.3 A
Wattage (W)	6.0
Vout Range (V)	5-24
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	Indoor Use
Size (mm)	40.5*62.0*32.0

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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	<a href="#">RFQ</a>
GT-46060-0605	5 V	1.2	6.00	<a href="#">RFQ</a>
GT-46060-0606-0.5	5.5 V	1.09	6.00	<a href="#">RFQ</a>
GT-46060-0606-0.05	5.95 V	1	5.95	<a href="#">RFQ</a>
GT-46060-0609-2.5	6.5 V	0.92	5.98	<a href="#">RFQ</a>
GT-46060-0609-2.0	7 V	0.857	6.00	<a href="#">RFQ</a>
GT-46060-0609-1.5	7.5 V	0.8	6.00	<a href="#">RFQ</a>
GT-46060-0609-1.0	8 V	0.75	6.00	<a href="#">RFQ</a>
GT-46060-0609	9 V	0.66	5.94	<a href="#">RFQ</a>
GT-46060-0612-2.0	10 V	0.6	6.00	<a href="#">RFQ</a>
GT-46060-0612-1.0	11 V	0.545	6.00	<a href="#">RFQ</a>
GT-46060-0612	12 V	0.5	6.00	<a href="#">RFQ</a>
GT-46060-0615-2.0	13 V	0.461	5.99	<a href="#">RFQ</a>
GT-46060-0615-1.5	13.5 V	0.44	5.94	<a href="#">RFQ</a>
GT-46060-0615-1.0	14 V	0.428	5.99	<a href="#">RFQ</a>
GT-46060-0615	15 V	0.4	6.00	<a href="#">RFQ</a>
GT-46060-0618-2.0	16 V	0.375	6.00	<a href="#">RFQ</a>
GT-46060-0618-1.0	17 V	0.353	6.00	<a href="#">RFQ</a>
GT-46060-0618	18 V	0.33	5.94	<a href="#">RFQ</a>
GT-46060-0624-5.0	19 V	0.315	5.99	<a href="#">RFQ</a>
GT-46060-0624-4.0	20 V	0.3	6.00	<a href="#">RFQ</a>
GT-46060-0624-3.0	21 V	0.285	5.99	<a href="#">RFQ</a>
GT-46060-0624-2.0	22 V	0.272	5.98	<a href="#">RFQ</a>
GT-46060-0624-1.0	23 V	0.26	5.98	<a href="#">RFQ</a>
GT-46060-0624	24 V	0.25	6.00	<a href="#">RFQ</a>

**PROPRIETARY INFORMATION**

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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 (2009/125/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 (2009/125/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: FCC 47CFR15 Subpart B Class B,  
ICES-003 Class B  
Radiated Emissions:FCC 47CFR15 Subpart B Class B,  
ICES-003 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  
Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge  
Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz and 3V/m 1.4-6.0GHz, 80% 1KHz AM.  
EFT/Burst Immunity EN61000-4-4, 2KV/5KHz or 2KV/100KHz.  
Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode  
Conducted RF Immunity EN61000-4-6, 10VRMS, 80% 1KHz AM  
Power Frequency Magnetic Field Immunity EN61000-4-8, 30A/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

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<https://www.globtek.com/datasheet/w71007>

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- 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**

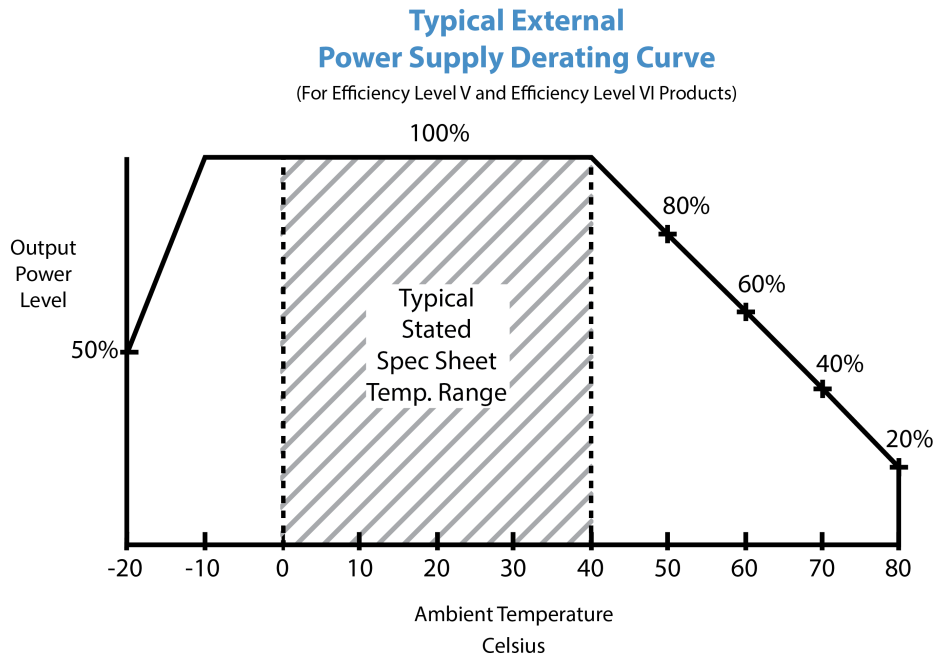
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Size: 40.5 x 64.0 x 30.0 +/-1.0 mm
- 03. Weight : 68.5 g
- 04. Markings: Label and/or Pad Printed and/or Molded in the case

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## DERATING CURVE



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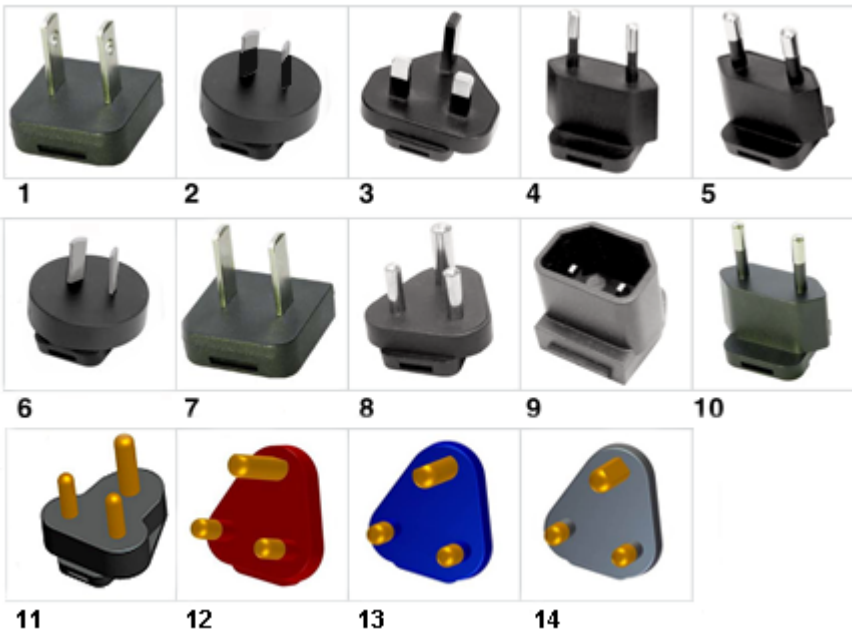
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**INPUT CONFIGURATION**

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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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
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	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, EN61000-4-6, EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On lab or Molded in case
	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.pdf">http://en.globtek.com/globtek-rohs.pdf</a>
Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1
	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 <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>

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No Logo	Greenhouse and Energy Minimum Standards (GEMS) for model GT-46060-0612
	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.
CAN ICES-3(B)/NMB-3(B)	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.
  R-41017175 <a href="http://www.bis.gov.in">www.bis.gov.in</a>	INDIA BIS (GT-46060) 3.5V, 5V, 5.95V, 8V, 9V, 12V, 13.5V, 15V, 24V only
  R-41017175 <a href="http://www.bis.gov.in">www.bis.gov.in</a>	INDIA BIS (GT-46060) 6.5V only
	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)
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),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>
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624 J62368-1(H30) , J55032(H29),J3000(H25),[DC15V?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>

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 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	Korea KC GT-46060-0612 (9V, 12V, 15V Only)
 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	
 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 	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
 Energy Verified Rendement Énergétique Vérifié	Canadian Energy Efficiency Regulations incorporating amendments 1 (only for mod GT-46060-0606-0.05)
 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: <a href="http://en.globtek.com/importing-to-japan.php">http://en.globtek.com/importing-to-japan.php</a> .
	RCM certificate SAA-202345-EA; 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>

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	UKCA Certification
	Ukraine UKRSepro (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
	UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14
	Japan: Voluntary Control Council for Interference (VCCI)
	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