

Model:GTM96060-06VV-Q

May 20, 2024

DOE EPS 2.0 Level VI Power Supply / Charger / AC Adapter, 6W, Available with 5-24VDC output Certified to Medical and ITE Standards

Information

Model Number	GTM96060-06VV-Q
Description	GTM96060-06VV-Q, 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: 6 Watts, Power rating with convection cooling (W) , 3.3-36V in 0.1V increments, Approvals: CCC; FCC; CAN ICES-3; IP42; CB 62368; 230V CoC Tier 2; ETL (6W max); EAC; cETLus 60950-1; cETLus 60601-1-11; UL 1310; UKCA; India BIS 5V, 5.5V,5.95V, 7.5V, 9V, 12V, 15V,18V, 19V, 24V; UL 1310; Korea (9,9.5,10,11,12,13,13.5,14V Only); Taiwan BSMI (3,5,5.2,5.95,6,6.7,7.5,9,11,12,13.5,15,18,19,24,30,36V only); Conforms to 62368-1; ETL 62368 (6W max); LPS 62368; Morocco; ETL (Brazil); PSE; Taiwan BSMI (5.5V only); Fuse 60335; Fuse 60335; max temp 50; Book 60601; CB 60601-1 2MOPP (6W max); CB EN/IEC 60335-1 (6W max); cETLus UL1310 (6W max); CE; Double Insulation; CE; China RoHS; Level VI; LPS 60950; RoHS; Ukraine; VCCI; WEEE; CB 60950; cETLus 60601-1 3rd (6W max); RCM; Korea (5.0V,5.2V,5.5V,5.6V,5.95V,6V,6.7V and 7.5V Only); PSE; PSE; PSE;

Model Picture



Agency Documents	http://www.globtek.info/certs/GTM96060/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a00a000000NrvDbEAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a00a000000NrvDbEAJ
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

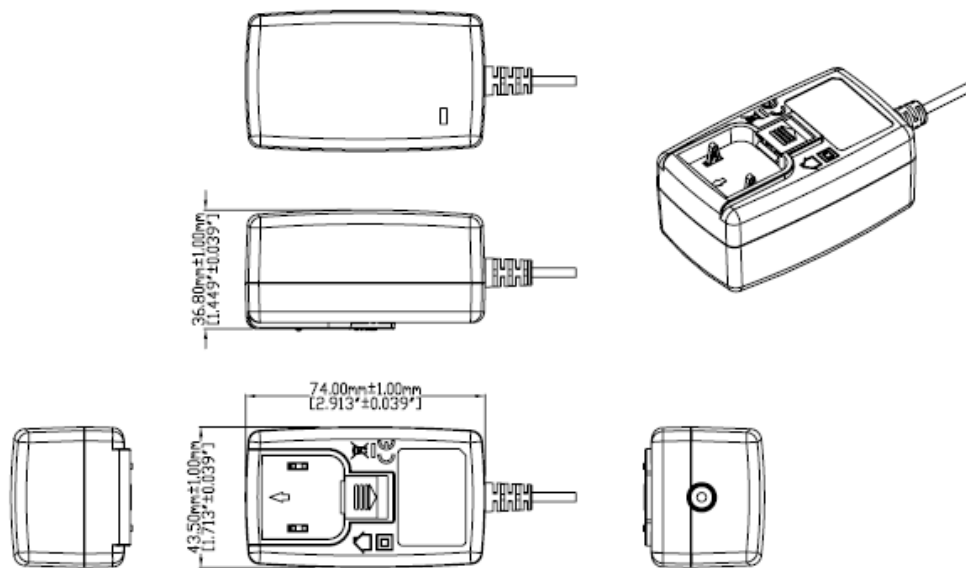
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	6.0
Vout Range (V)	3.3-36
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP42 (Optional IP54-IP55)
Size (mm)	43.5*74.0*36.8

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ENCLOSURE



LED INDICATOR: Green Power ON indicator LED standard. May be ordered without LED as an option

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM96060-0706-1.0	5 V	1.5	7.50	RFQ
GTM96060-0606-1.0	5 V	1.2	6.00	RFQ
GTM96060-0606-0.05	5.95 V	1	5.95	RFQ
GTM96060-0612-3.2	8.8 V	0.68	5.98	RFQ
GTM96060-0612-3.0	9 V	0.66	5.94	RFQ
GTM96060-0512-3.0	9 V	0.5	4.50	RFQ
GTM96060-0612-2.5	9.5 V	0.63	5.99	RFQ
GTM96060-0612	12 V	0.5	6.00	RFQ
GTM96060-0615-1.5	13.5 V	0.44	5.94	RFQ
GTM96060-0615-1.2	13.8 V	0.43	5.93	RFQ
GTM96060-0615	15 V	0.4	6.00	RFQ
GTM96060-0618	18 V	0.333	5.99	RFQ
GTM96060-0624-5.0	19 V	0.316	6.00	RFQ
GTM96060-0624-4.0	20 V	0.3	6.00	RFQ
GTM96060-0624	24 V	0.25	6.00	RFQ
GTM96060-0636-6.0	30 V	0.2	6.00	RFQ
GTM96060-0636	36 V	0.166	5.98	RFQ

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SPECIFICATIONS

Input

Input Voltage:	Specified: 90-264VAC, Nameplate: 100-240VAC 100% rated load current for 90-264VAC 85% rated load current for 85-264VAC 100% rated load current for 110-370VDC
Input Frequency:	Specified: 47-63Hz, Nameplate: 50-60Hz
No Load Input Power:	<75mW @ 230VAC
Inrush Current:	<30A @ 230VAC (cold start @ 25°C)
Efficiency:	DoE Energy Level VI and CoC Tier 2, for models 5V and above

Output

Turn-on Delay:	1 second max. @ 100VAC and full load
Output Regulation	± 5% (measured at the output connector)
Line Regulation:	± 1% (measured at the output connector @ full load)
Ripple:	0.5% pk-pk or 50mV, whichever is greater (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW) (Note: < 0.2% or 25mV option available upon request)
Transient Response:	5% deviation max. (with 25% load step), recovery to within 1ms typ.
Startup Overshoot:	<5% (full load)
Hold-up Time:	8ms min. (100VAC and full load)
Power Indicator:	Green LED
Switching Frequency:	65KHz typ.

Protections

Input Protection:	300Vac MOV transient suppressor, input line fusing
Over-Voltage Protection:	110-130%, of nominal output voltage
Current Limiting: (Standard CV Models):	Short circuit and overload protected, auto recovery Output current limit: 120% to 250% of rated output current (Upper end of current limit range is determined by normal output power rating, not derated output power level)
Current Limiting: (Constant Current Models):	± 10% of specified nominal output current rating Current regulated from Vout (nom.) to 0.25 * Vout (nom.) Average output current below 0.25 * Vout will be reduced, and unit will hiccup cycle
Over-Temperature Protection	On-chip temperature sensor (integrated in primary-side switching controller), shut down at Tj = ~140°C, restart at Tj = ~70°C

Environmental

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MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)
Operating Temperature:	-10°C to 50°C (@ 6W load) See derating graph for output power capability outside of standard range.
Storage Temperature:	-30°C to 80°C
Humidity:	0% to 95% relative humidity, non-condensing
Cooling:	Convection
RoHS:	Compliant with latest regulations

Safety

Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output
Touch Current:	<60µA
Earth Leakage Current	N/A, Class II input (No protective earth pin, therefore earth leakage is not measured)
Means of Protection:	2 x MOPP
Primary-Secondary Bridging Capacitance:	Two 470pF IEC60384-14 certified Y1 capacitors in series

EMC

Applicable Standards:	Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11, CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load)
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load)
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A
Voltage Fluctuations/Flicker:	EN61000-3-3
Electrostatic Discharge (ESD) Immunity:	EN61000-4-2, 10KV contact discharge, 18KV air discharge
Radiated RF Immunity:	EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM
EFT/Burst Immunity:	EN61000-4-4, 4KV/100kHz.
Line Surge Immunity:	EN61000-4-5, 1.5KV differential, 4KV common-mode
Conducted RF Immunity:	EN61000-4-6, 3VRMS, 80% 1KHz AM
Power Frequency Magnetic Field Immunity:	EN61000-4-8, 3A/m
Voltage Dip Immunity:	EN61000-4-11

Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Size:	43.5 x 74.0 x 36.8 +/-1.0 mm
Markings:	Label, pad printing, or laser engraving

Special Options

1. Cost reduction, removal of LED

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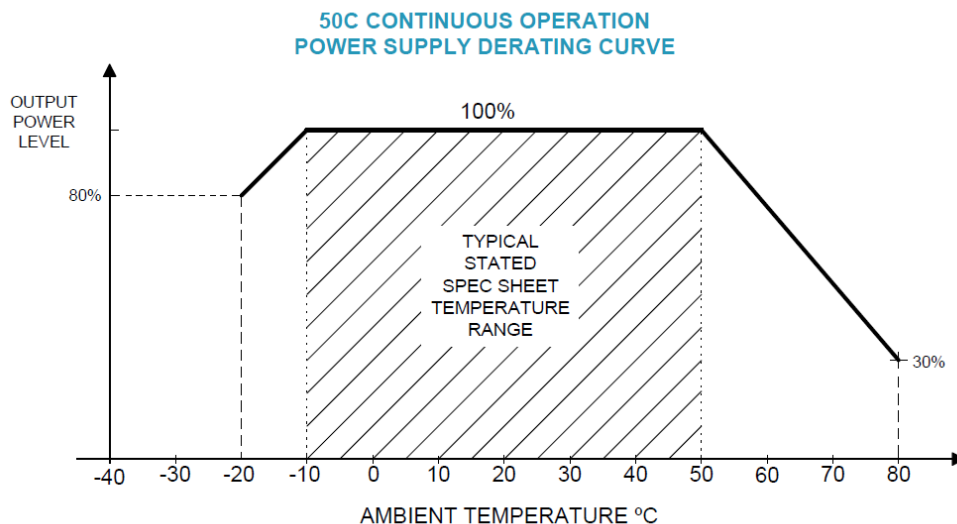
2. Custom cordsets, various cordage types, and connector types
3. Custom markings
4. Reduced leakage current version, medical Type-CF leakage current compliance
5. Tightened output voltage tolerance
6. Reduced output ripple level
7. Constant current battery charger characteristic
8. Reduced output power rating
9. High reliability PCB laminate with plated through-holes for IPC610 Class 2 Compliance
10. Output voltage between 3.3V and 4.9V (without DoE EL6 and EU CoC Tier 2 compliance)
11. Special housing colors and cordset colors
12. Tamper proof, AC wall plug-in blade assembly. (Requires a special tool to remove the AC Wall Plug-in blade assembly.)

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DERATING CURVE



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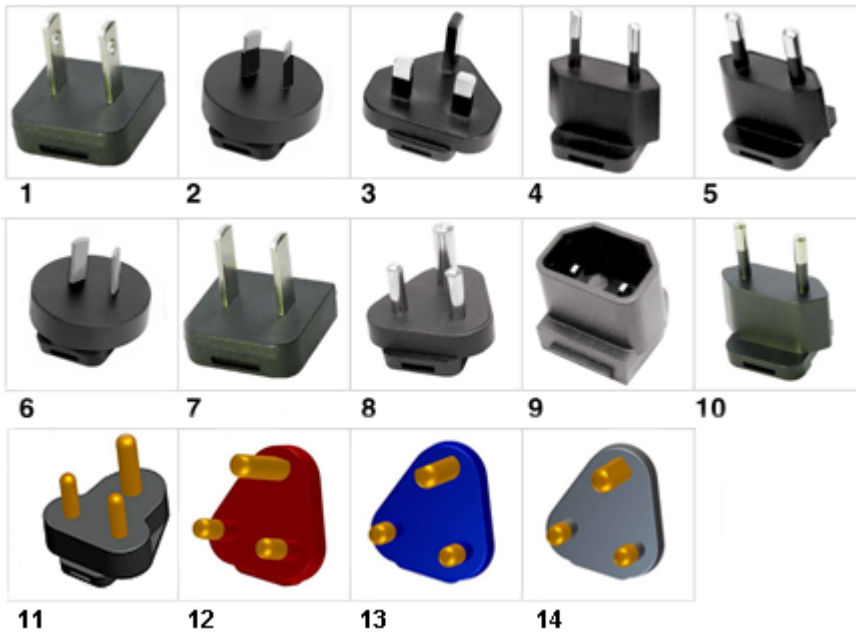
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INPUT CONFIGURATION

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-SANS164-4C-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-SANS164-4L-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 for 5V and > models, 278/2009, Mar 2014
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
 R37924 RoHS	Taiwan BSMI; http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2 GTM96060 (3, 5, 5.2, 5.95, 6, 6.7, 7.5, 9, 11, 12, 13.5, 15, 18, 19, 24, 30, 36V only)
 R37924 RoHS	Taiwan BSMI; http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2 GTM96060 (5.5V only)
No Logo Applicable	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:2006 3.1rd Edition (6W max)
No Logo	CB Report IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 (GTM96060-1)
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
No Logo Applicable	CB to 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013 (6W max)
	CCC to GB4943.1-2022 GB9254-2021 GB17625.1-2022

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	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2014 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with EN61000-3-2, EN61000-3-3 and EN50082-1, including EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11 EN61001-1-2-2007 EMI: Complies with EN55011 CLASS B and FCC Part 15 B
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2] (6W max)
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27, Ed: 2 Rev: 2014/10/14) Information Technology Equipment Safety Part 1: General Requirements (CSA C22.2 No. 60950-1 Issued: 2007/03/27 Ed: 2 (R2012) Amd. 6W
 Class 2 Power Unit	cETLus-Cert 4007497 UL1310 Recognized Component up to 36 volts (6W max)
	AAMI ES60601-1 Issued: 2012/08/20 Medical Electrical Equipment - Part 1: CAN/CSA-60601-1-14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1: CAN/CSA-60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.- Part 1-11: (6W max
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%
Conforms to AAMI STD.ES60601-1,IEC 60601-1-11 Certified to CAN/CSA STD.C22.2 NO.60601-1	Conforms to AAMI STD.ES60601-1,IEC 60601-1-11 Certified to CAN/CSA STD.C22.2 NO.60601-1
Conforms to UL STD. 1310 Certified to CSA STD. C22.2 NO.223	Conforms to UL STD. 1310 Certified to CSA STD. C22.2 NO.223
	Conforms to UL STD. 60950-1

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Conforms to UL STD. 60950-1 Certified to CSA STD C22.2 NO.60950-1	Certified to CSA STD C22.2 NO.60950-1
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
	
	Certification # TC RU AR46.B.69004 Custom Union of Russia, Belarus and Kazakhstan
	ETL (Brazil) to IEC 62368-1;2014 DOC cert
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with output load. The FCC law stipulates that system-level testing is required to demonstrate with the FCC emission limits with the actual system load.
T1.0A 250VAC 	Fuse 60335 T1.0A 250VAC Up to 36 volts
CAN ICES-3(B)/NMB-3(B)	Compliance of this PSU with Industry Canada, Class B demonstrated with a standard of The ICES law stipulates that system-level testing is required to demonstrate compliance ICES-3 emission limits with the actual system load.
Ta:50°C	IEC 60601-1 GTM96060 Maximum Ambient Temperature, Max 50°C
IS 13252 (Part 1) IEC 60950-1  R-41017175 www.bis.gov.in	INDIA BIS (GTM96060) 5V,5.5V, 5.95V, 7.5V, 9V, 12V,15V, 18V, 19V, 24V only
	Indoor Use Only - Mark is on the label or Molded in the case
	Ingress Protection: ?IP42 to IEC60529:2001 Protection against

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IP42	granular foreign bodies - Protected against direct sprays up to 15o from the vertical Opt
	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H less). Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H less). Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 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 guid PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25),[DC30V?60V]. Please reference the following website for guid PSE regulations: https://www.globtek.com/r2/Szj4Vb
	Korea KC Mark GTM96060-Q HU10499-20043A (5.0V,5.2V,5.5V,5.6V,5.95V,6V,6.7V a
	Korea KC Mark GTM96060-Q (9,9.5,10,11,12,13,13.5,14V Only)
EFFICIENCY LEVEL VI	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) co Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of (Europe) (for 5V and > models)
LPS	Limited Power Source 60950
LPS	Limited Power Source 62368

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	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
 N136 SAA-210640-EA	RCM certificate SAA-210640-EA; Australia and New Zealand Regulatory Compliance, N http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-E http://www.ce-mark.com/Rohs%20final.pdf
	UKCA Certification
 10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
DO NOT REMOVE THE TAG WARNING/ADVERTISEMENT RISK OF ELECTRIC SHOCK DRY LOCATION USE ONLY FOR INDOOR USE ONLY Risque de choc électrique Utilisation endroit sec Pour une utilisation en intérieur See instructions if the input plug does not fit the power outlet	UL1310 Warning Label Up To 36 Volts with plugs
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index.htm) Mark is on the label or Molded in the case