

Model:GTM46402-40VV-x.x-Q

May 9, 2025

GTM46402-40VV-x.x-Q

Information

Model Number

GTM46402-40VV-x.x-Q

Description

GTM46402-40VV-x.x-Q, Medical/ICT/ITE/Household use 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: 40 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: cETLus 60950-1; cETLus 60601-1-11; UL 1310; PSE; RCM; cETLus 60601-1 3rd; CB 60335; CB 60950; cETLus 60950; CB 60601-1; Fuse 60335; Fuse 60335; cETLus UL1310; UL 1310; SELV; CB 62368; EAC; LPS 60950; 2MOPP; Korea (15V-24V Only); CCC; PSE; PSE; UKCA; GEMS(24V); UL 1310; Conforms to 62368-1; LPS 62368; ETL 62368; Morocco; Singapore (12V); EAC; India BIS 5,5.95,9,12,13.4,15,18,19,24,48V only; Taiwan BSMI; Korea (12V Only) pending; CE; Ukraine; VCCI; RoHS; Level VI; FCC; CAN ICES-3; IP52; Double Insulation;WEEE;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM46402/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a0Oa000000FivPcEAJ

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a0Oa000000FivPcEAJ

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

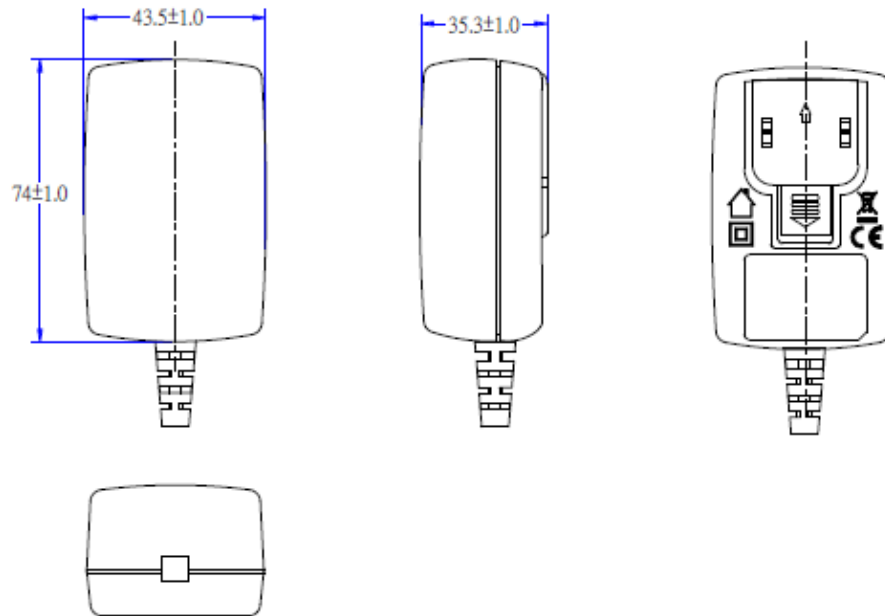
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical/ICT/ITE/Household use Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.0A
Wattage (W)	40.0
Vout Range (V)	5-48
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	Indoor Use
Size (mm)	43.5 x 74.0 x 35.3

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM46402-2505	5 V	5	25.00	RFQ
GTM46402-3005	5 V	6	30.00	RFQ
GTM46402-3606-0.05	5.95 V	6.05	36.00	RFQ
GTM46402-2107	7 V	3	21.00	RFQ
GTM46402-3007.5	7.5 V	4	30.00	RFQ
GTM46402-3509	9 V	3.88	34.92	RFQ
GTM46402-2709	9 V	3.000	27.00	RFQ
GTM46402-3612	12 V	3	36.00	RFQ
GTM46402-2512	12 V	2.08	24.96	RFQ
GTM46402-3012	12 V	2.500	30.00	RFQ
GTM46402-3713.4	13.4 V	2.76	36.98	RFQ
GTM46402-3713.6	13.6 V	2.72	36.99	RFQ
GTM46402-3713.8	13.8 V	2.68	36.98	RFQ
GTM46402-4015	15 V	2.66	39.90	RFQ
GTM46402-4018	18 V	2.22	39.96	RFQ
GTM46402-3618	18 V	2	36.00	RFQ
GTM46402-4019	19 V	2.1	39.90	RFQ
GTM46402-4024	24 V	1.66	39.84	RFQ
GTM46402-4031	31 V	1.29	39.99	RFQ
GTM46402-4048	48 V	0.833	39.98	RFQ

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<https://www.globtek.com/ds/7eYqR4AQ3TR/szgLDkGpMuJ.html#datasheet>

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
90-264 Vac range @ 100% of rated load current
85-264 Vac range @ 85% of rated load current
110-370 VDC range @ 100% of rated load current
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 0.5% typical measured at full load
05. Output Ripple (Vp-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector
06. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 40% to 70% step load
07. Turn-ON Delay: 1 second maximum @ full load, nominal line
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A/60A maximum cold start @ 115/230Vac input
10. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
11. No Load Standby Power: <0.075 W @ 230Vac

B) PROTECTION

01. Input Protection: Input line fusing and 300Vac MOV
02. Short Circuit/ Overload: Electronically Protected unit will auto recover upon removal of fault
Output Current Limit: 110% to 160% of rated output current
(upper end of current limit range is determined by normal output power rating, not derated output power level)
03. Output Over-Voltage: 110% to 130% of nominal output voltage

C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output
02. Earth Leakage Current: N/A for Class II models
03. Touch Current: < 95uA
04. Means of Protection for Medical Standard: 2 x MOPP
05. Compliant Standards: See listings at end of this drawing for specifics

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, 8kV Contact Discharge, 15kV air discharge
Radiated RF Immunity EN61000-4-3, 3V/m 80-2700MHz, 80% 1KHz AM.
EFT/Burst Immunity EN61000-4-4, 2kV/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, NA

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Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:

- 01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, Full Load
Projected failure rate expected to be < 0.5% after 5 years, < 3 % after 10 years
- 02. Operating Temperature: -20°C to 40°C ambient temperature at full load, -40°C to 50°C ambient temperature with derating to 80% load
- 03. Operating Humidity: 0% to 95% relative humidity, non-condensing
- 04. Storage Temperature: -40°C to 80°C
- 05. Operating Altitude: 5000 Meters for IEC 62368-1 and IEC 60335-1. 3000M for IEC 60601-1
- 06. Ingress Protection: IP40 standard, IP52 available as special option
- 07. ROHS: Compliant with latest regulations, see approvals section below

F) ENCLOSURE

- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Markings: Label or Laser Printed
- 03. AC Input mechanical: Replaceable, Class II Wall Plug-in attachments

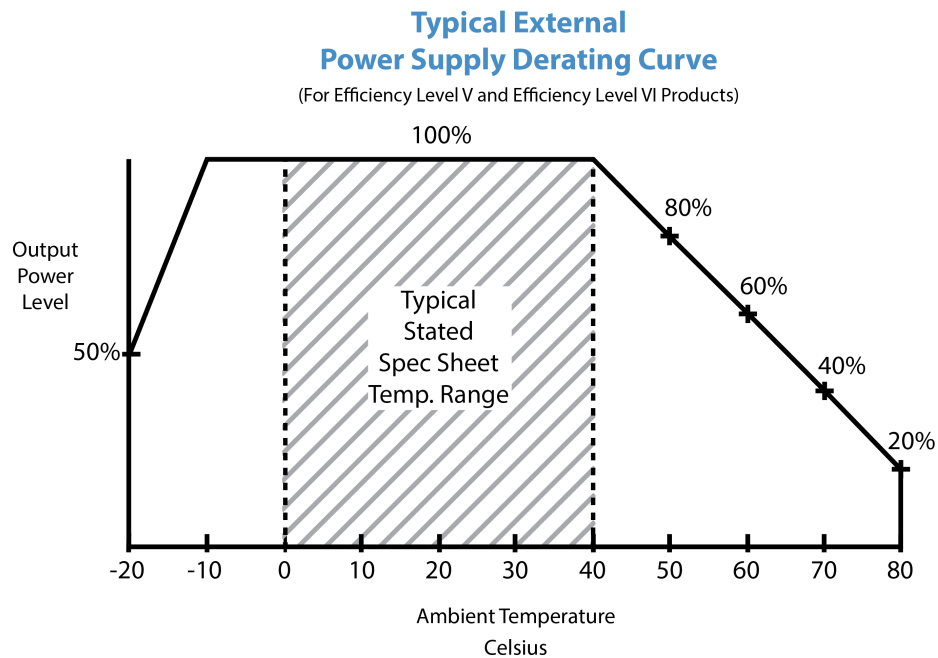
G) SPECIAL OPTIONS

- 02. Custom Cordsets, various cordage types, and connector types*
- 03. Custom Markings
- 06. Tightened output voltage tolerance
- 07. Reduced output ripple level
- 08. Reduced output power rating marking
- 09. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
- 10. Special Housing Colors and Cordset Colors

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DERATING CURVE



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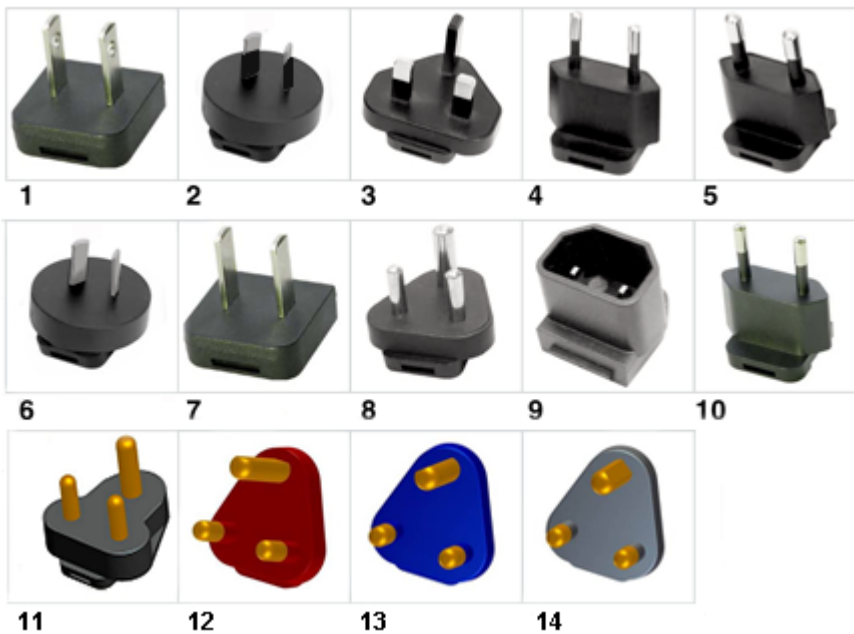
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INPUT CONFIGURATION

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
2MOPP	2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name
	Book 60335 up to 36 Volts
 R37924 RoHS	Taiwan BSMI GTM46402 R37924 http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition
No Logo Applicable	IEC 60335-1:2010+A1+A2
No Logo Applicable	CB report to IEC 60950-1:2005 (2nd Edition) +A1:2009 + A2:2013
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
 5000	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
	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
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2]

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	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]
 Class 2 Power Unit	cETLus-Cert 4007497 UL1310 Recognized Component up to 42.4 volts
	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1]Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [CSA C22.2#60601-1:2014
	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. 1
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 Certified to CSA STD C22.2 NO.60950-1	Conforms to UL STD. 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 # EAЭC N RU Д-US.PA01.B.82438_21 Custom Union of Russia, Belarus and Kazakhstan
	Declaration ДC № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia,

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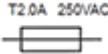
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	Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
No Logo	Greenhouse and Energy Minimum Standards (GEMS) for model GTM46402-4024
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated 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.
	Fuse 60335 T2.0A 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 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.
IS 13252 (Part 1) IEC 60950-1  R-41017175 www.bis.gov.in	Bureau Of Indian Standards for GTM46402 5,5.95,9,12,13.4,15,18,19,24,48V only
	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 (with R-Blades)
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or 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. JD50473430 , to J62368-1(H30) , J55032(H29),J3000(H25)[DC15? 30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb

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 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30? 60V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
	Korea for GTM46402-3612(12V) pending
 직류전원장치 AC/DC ADAPTER KTC HU10499-22054A R-R-GSZ-0017 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명:GTM46402-4024 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea for GTM46402-4024(15V-24V)
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 60950
LPS	Limited Power Source 62368
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
GMA-518428-EA	RCM certificate GMA-518428-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.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
SELV	safety/separated extra-low voltage IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006
 230138-24	Singapore GTM46402-3612 12V only
	UKCA Certification

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 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 42.4 Volts with plugs
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 42.4 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_en.htm) Mark is on the label or Molded in the case