

Model:GT-46180-18VV-x.x-Q

May 20, 2024

DOE EPS 2.0 Level VI Power Supply / Charger / AC Adapter, 18W, Available with 5-24VDC output meeting 15kV ESD Air Discharge and 8kV ESD Contact Discharge

Information

Model Number	GT-46180-18VV-x.x-Q
Description	18 W, DoE Level VI & CoC V5 Tier 2 Efficiency, Interchangeable Input Blades, Wall Plug Adapter, Ac-Dc Power Supply

Model Picture



Agency Documents	http://www.globtek.info/certs/GT-46180-18VV-X.X/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MFCdnEAH
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MFCdnEAH
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

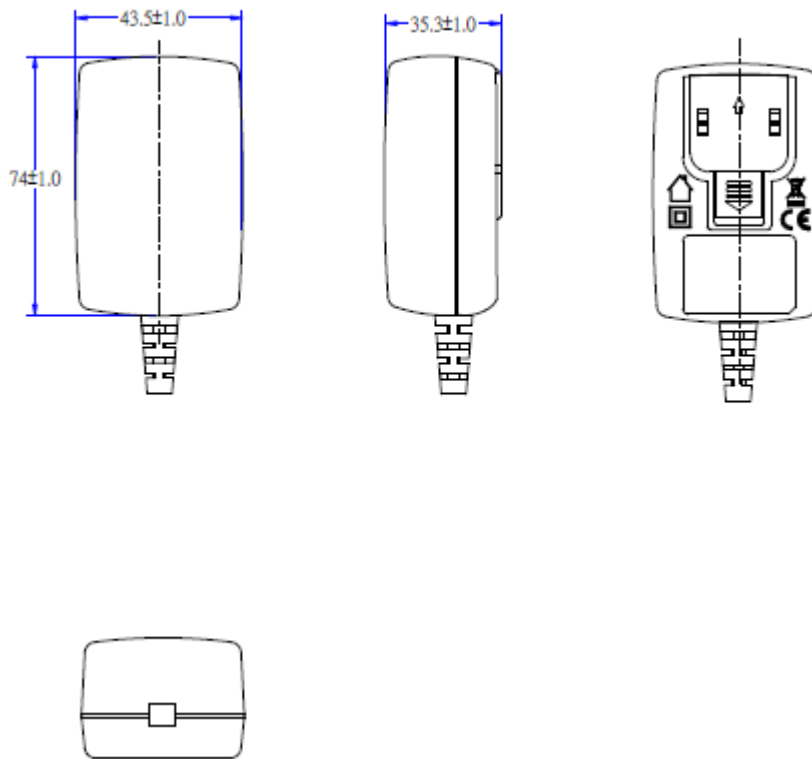
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	18.0
Vout Range (V)	5-24
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	Indoor Use
Size (mm)	74*43.5*36.8

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-46180-1605	5 V	3.2	16.00	RFQ
GT-46180-1105	5 V	2.2	11.00	RFQ
GT-46180-1305	5 V	2.6	13.00	RFQ
GT-46180-1505	5 V	3	15.00	RFQ
GT-46180-1005	5 V	2	10.00	RFQ
GT-46180-1609-3.8	5.2 V	3	15.60	RFQ
GT-46180-1809-3.05	5.95 V	3	17.85	RFQ
GT-46180-1509-3.05	5.95 V	2.5	14.88	RFQ
GT-46180-1509-2.0	7 V	2.14	14.98	RFQ
GT-46180-1509-1.5	7.5 V	2	15.00	RFQ
GT-46180-1509-1.0	8 V	1.875	15.00	RFQ
GT-46180-1509	9 V	1.66	14.94	RFQ
GT-46180-1809	9 V	2	18.00	RFQ
GT-46180-1812-2.7	9.3 V	1.94	18.04	RFQ
GT-46180-1812-2.5	9.5 V	1.89	17.96	RFQ
GT-46180-1005	10 V	2	20.00	RFQ
GT-46180-1812-2.0	10 V	1.8	18.00	RFQ
GT-46180-1812-1.0	11 V	1.636	18.00	RFQ
GT-46180-1812	12 V	1.5	18.00	RFQ
GT-46180-1212	12 V	1	12.00	RFQ
GT-46180-1815-2.0	13 V	1.385	18.01	RFQ
GT-46180-1815-1.0	14 V	1.285	17.99	RFQ
GT-46180-1815	15 V	1.2	18.00	RFQ
GT-46180-1818-2.0	16 V	1.125	18.00	RFQ
GT-46180-1818-1.0	17 V	1.059	18.00	RFQ

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<https://www.globtek.com/ds/8aeifnVgapt/XKLSG2xU3PX.html>

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GT-46180-1818	18 V	1	18.00	RFQ
GT-46180-1820-1.0	19 V	0.947	17.99	RFQ
GT-46180-1824-4.0	20 V	0.9	18.00	RFQ
GT-46180-1824-3.0	21 V	0.857	18.00	RFQ
GT-46180-1824-2.0	22 V	0.818	18.00	RFQ
GT-46180-1824-1.0	23 V	0.782	17.99	RFQ
GT-46180-1824	24 V	0.75	18.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
(85-264Vac range @ 85% of rated load)
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: 85% Min (CEC & DOE LEVEL VI Compliant), 85.45% 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)
06. Output Voltage tolerance: $\pm 5\%$
07. Line regulation: $\pm 1\%$
08. Output Voltage: Tolerance $\pm 5\%$
09. Turn On Delay: 3000 mS MAX at 115 VAC Full Load
10. Hold Up Time: 10 mS Min at 100 VAC Full Load
11. Ripple Voltage: $\pm 1\%$ 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. Over Load Protection: Output shut down and auto restart

C) SAFETY

01. HI-POT : Input to output : 3000VAC or 4242VDC 10mA 1 minute
02. Touch current: <0.25mA
03. ESD: Contact discharges 8kV, Air discharges 15 kV
04. Fast transients/bursts: 4 kV

D) 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. Elevation up to 4000 m
05. Storage Temperature: -10°C to 70°C
Humidity Storage: 10% to 90%
06. RoHS: Complies with EU 2015/863 and China SJ/T11363-2014

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E) ENCLOSURE

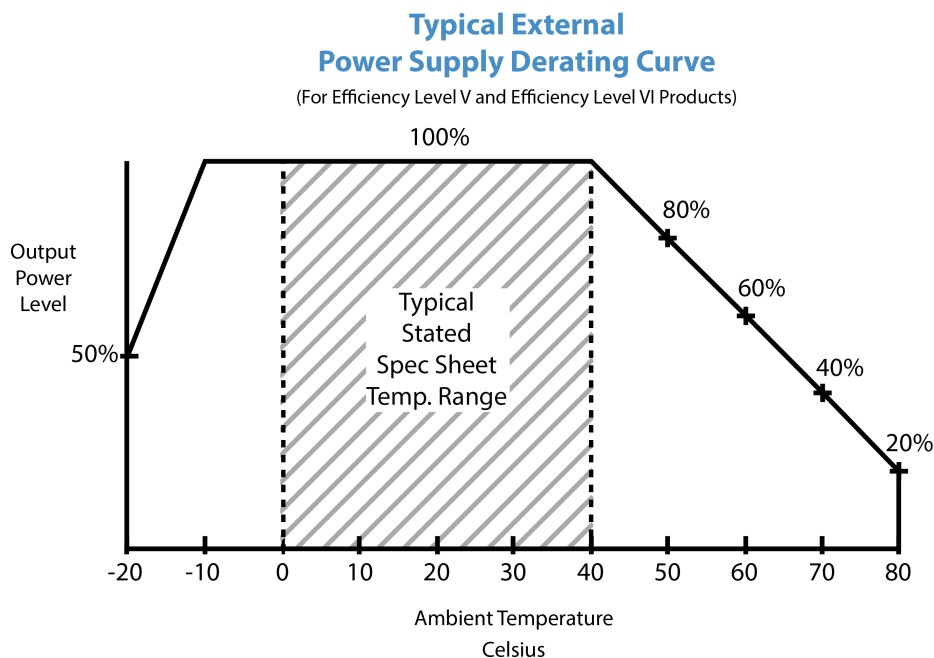
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
 02. Size: 74.0 x 43.5 x 34.0 +/-1.0 mm
 03. Weight : 68.5 g
 04. Markings: Label and/or Pad Printed and/or Molded in the case
-

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DERATING CURVE



Model:GT-46180-18VV-x.x-Q

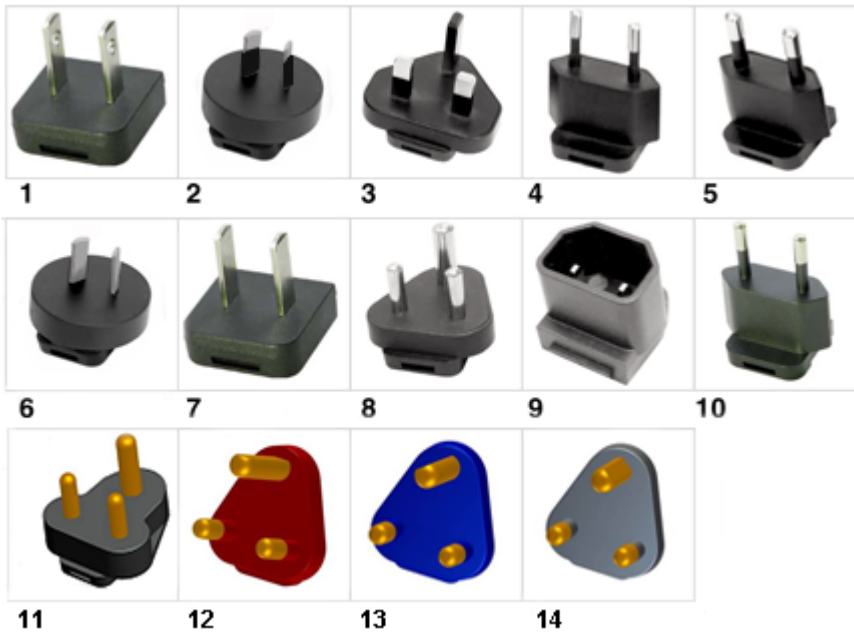
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INPUT CONFIGURATION

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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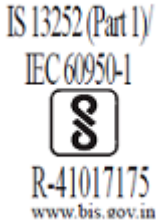
Approvals

Logo	Description
No Logo Applicable	EU 230V CoC Tier 2, 278/2009, Mar 2014
 R37924 RoHS	Taiwan BSMI R37924 5V-15V for GT-46180
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)
	CE Mark: tested to comply with IEC 61000-4-2:2008 ED.2.0 IEC 61000-4-2:2008 ED.2.0 IEC 61000-4-3:2010 ED.3.2 IEC 61000-4-3:2010 ED.3.2 IEC 61000-4-4:2012 ED.3.0 IEC 61; E Complies with CISPR 22:2008, Class B AS/NZS CISPR 22:2009 +A1:2010,Class B IEC 610
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20
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 E170507
	
	Certification # TC RU AR46.B.69004 Custom Union of Russia, Belarus and Kazakhstan

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	Declaration DC № EAЭС 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
No Logo	Greenhouse and Energy Minimum Standards (GEMS) for model GT-46180-1812 Registration No APS3847
	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.
 5000 米及以下	GB 17625.1-2022 (A 类) ; GB 4943.1-2022;GB/T 9254.1-2021 Tropical <5000 for GT-46180
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 www.bis.gov.in	Bureau Of Indian Standards for GT-46180-1812 (12V 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)
 DC-E-G71-001.11 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-001.11 to IEC 60950 -1:2005+ A1:2009 + A2:2013

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ITE 인증	Electric strength Of Israel Standard SI 60950 Part 1 ? Safety of information technology equipm General requirements, Feb. 2012. (12 Volts Only)
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561.pdf, to J62368-1(H30) , J55032(H29), J3000(H25),[15V?30V]. Please reference the following website for PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561, to J62368-1(H30) , J55032(H29), J3000(H25),[30V?60V]. Please reference the following website for PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561, to J62368-1(H30) , J55032(H29), J3000(H25),[1 less]. Please reference the following website for PSE regulations: https://www.globtek.com/r2/Szj4Vb
 직류전원장치 AC/DC KTC HU10499-16025A 전기용품안전관리법에 의한 표시 모델명:GT-46180-1505 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100  직류전원장치 AC/DC KTC HU10499-16025A MSIP-REM-GSZ-GT-46180-1509-15 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명:GT-46180-1509-1.5 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100  직류전원장치 AC/DC KTC HU10499-16025A 전기용품안전관리법에 의한 표시 모델명:GT-46180-1509-3.0 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100  직류전원장치 AC/DC KTC HU10499-16025A 전기용품안전관리법에 의한 표시 모델명:GT-46180-1509-2.0 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea KC GT-46180 HU10499-16025A (5V, 6V, 7V, 7.5V Only)

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 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 모델명:GT-46180-1509 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea KC Mark GT-46180-18VV-x.x-Q HU10499-16024A (9V, 12V, 15V Only)
 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 모델명:GT-46180-1512 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 모델명:GT-46180-1515 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 최저소비효율기준 약속 제품 모델명:GT-46180-1812 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 모델명:GT-46180-1815 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	
 직류전원장치 AC/DC KTC HU10499-16024A MSIP-REM-GSZ-GT-46180-1812 전기용품안전관리법에 의한 표시 모델명:GT-46180-1809 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 Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Condu (Europe)
LPS	Limited Power Source 60950
LPS	Limited Power Source 62368
No Logo	Malaysia ST Release Letter GT-46180 IEC60950-1:2005 (ED.2) + A1:2009 + A2:2013, No logo

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	Morocco approval to IEC 60950:1-2005 No logo
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
	NOM (Mexico) to NOM-001-SCFI-1993 for GT-46180-1605-Q (5 Volts only) pending
	NOM (Mexico) to NOM-001-SCFI-1993 for GT-46180-1812-Q (12 Volts only)
	Natural Resources Canada (NRCAN): CSA Standard C381.1-08, QSP NRCAN EEV1191; http://shop.csa.ca/en/canada/energy-efficiency/canca-c3811-08/inv/27024802008
No logo	Peru approval to IEC 60950:1-2005 No logo
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please the procedure listed in the following link for proper import to Japan: https://www.globtek.com/r2/Szj4Vb
 N136 SAA-202775-EA	RCM certificate SAA-SAA-202775-EA; Australia and New Zealand Regulatory Compliance, Ma http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (RO http://www.ce-mark.com/Rohs%20final.pdf
إمدادات الطاقة	Saudi Arabia approval to IEC 60950:1-2005

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 191 052-12	7.5
 220214-24	Singapore GT-46180-1812 ICE 60950-1:2005 + A1:2009 +A2:2013 220214-24 (12V only)
No Logo	SOUTH AFRICAN EMI/EMC for GT-46180
No Logo	South Africa approval NRCS
	UKCA Certification
 10276	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
 LISTED 4MU8 E341351	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 (http://ec.europa.eu/environment/waste/weee/index_en). Mark is on the label or Molded in the case