

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

May 9, 2025

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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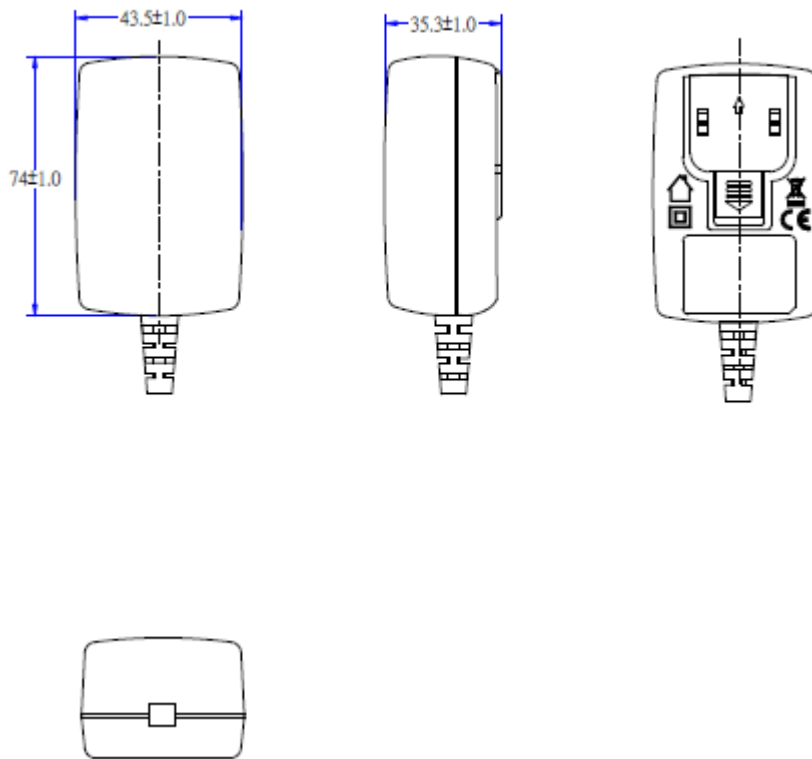
<https://www.globtek.com/ds/8aeifnVqapt/XKLSG2xU3PX.html#datasheet>

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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	3.02	17.97	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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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 μ F ceramic capacitor in parallel with 10 μ F 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

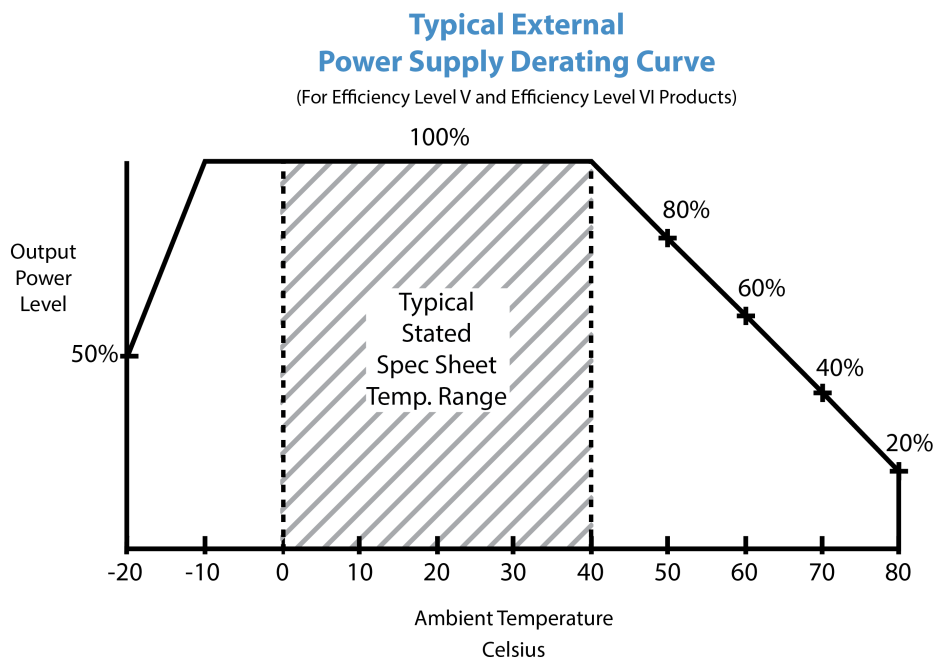
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
 - 02. Size: 74.0 x 43.5 x 34.0 +/-1.0 mm
 - 03. Weight : 68.5 g
 - 04. Markings: Label and/or Pad Printed and/or Molded in the case
-

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DERATING CURVE



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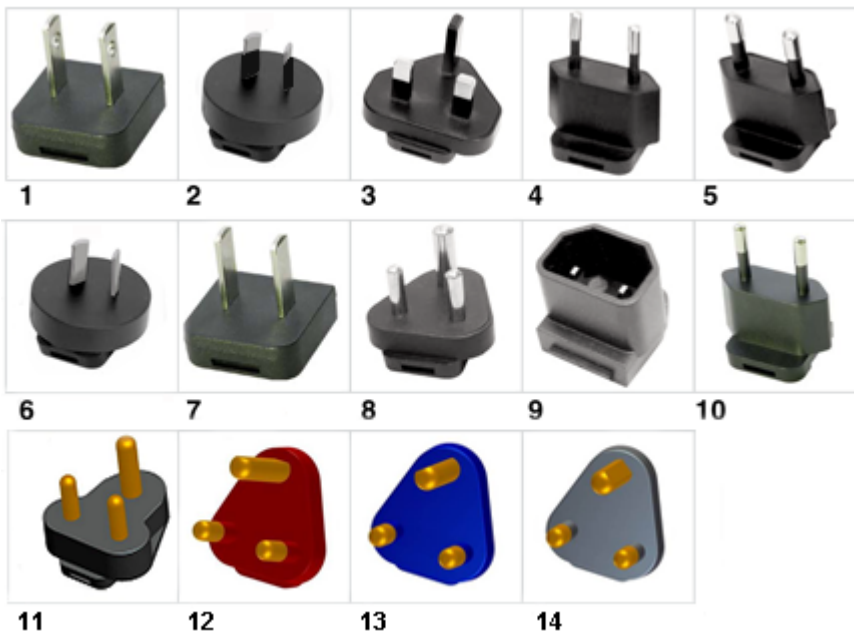
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INPUT CONFIGURATION

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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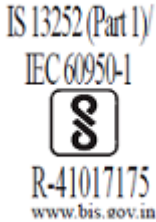
Approvals

Logo	Description
No Logo Applicable	EU 230V CoC Tier 2, 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-46180-1509-1.5 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 제정 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