

"Your power partner"

http://www.globtek.com/iso-certificates.php

Information	
Model Number	GTM961800PWWWVV.V-T2
Description	180 W, DoE Level VI & CoC Tier 2 Efficiency, Two Prong (C8) Inlet, Desktop Adapter, Ac-Dc Power Supply
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM961800P/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000FkVmvEAF
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000FkVmvEAF
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf



http://www.globtek.com/iso-certificates.php

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

Model:GTM961800PWWWVV.V-T2

May 3, 2024

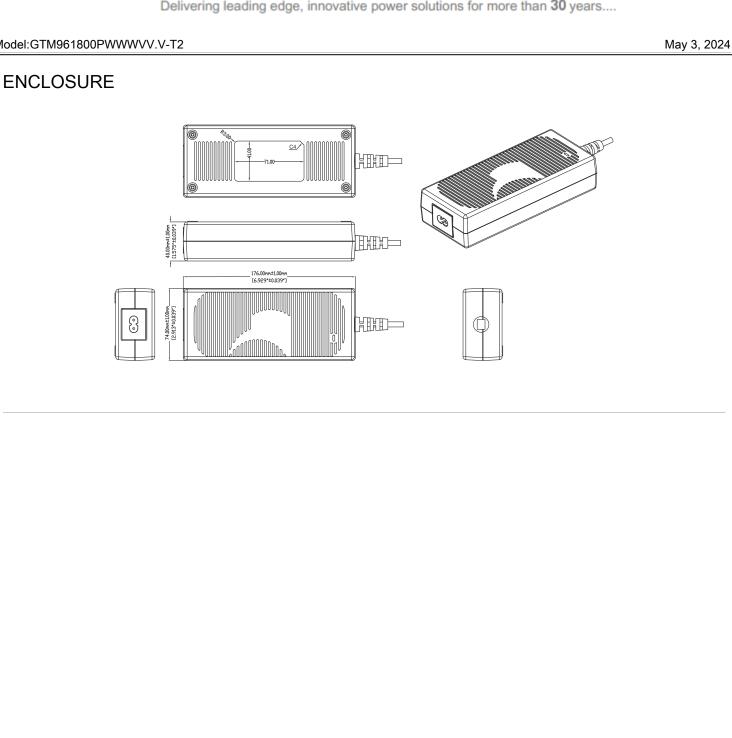
MODEL PARAMETERS Туре Desktop/External Technology Regulated Switchmode AC-DC Power Supply AC Adaptor Category Medical/ICT/ITE/Household use Power Supply 100-240V~, 50-60 Hz Input Voltage I/P Amps (A) 2.2A 180.0 Wattage (W) Vout Range (V) 12-54 Efficiency Level USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 Ingress Protection IP41 Size (mm) 176.5*74*40



http://www.globtek.com/iso-certificates.php

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

Model:GTM961800PWWWVV.V-T2





http://www.globtek.com/iso-certificates.php

"Your power partner"

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

Model:GTM961800PWWWVV.V-T2

May 3, 2024

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM961800PWWWVV-T2	V			RFQ
GTM961800P16012-T2	12 V	13.33	159.96	RFQ
GTM961800P17015-T2	15 V	11.33	169.95	RFQ
GTM961800P17018-T2	18 V	9.44	169.92	RFQ
GTM961800P18019-T2	19 V	9.47	179.93	RFQ
GTM961800P18020-T2	20 V	9	180.00	RFQ
GTM961800P18024-T2	24 V	7.5	180.00	<u>RFQ</u>
GTM961800P18030-T2	30 V	6	180.00	RFQ
GTM961800P18036-T2	36 V	5	180.00	<u>RFQ</u>
GTM961800P18048-T2	48 V	3.75	180.00	<u>RFQ</u>
GTM961800P18054-T2	54 V	3.333	179.98	RFQ



http://www.globtek.com/iso-certificates.php

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

odel:GTM961800PWWWVV.V-T2	May 3, 2	
Input		
Input Voltage:	Specified: 90-264VAC, Nameplate: 100-240VAC 100% rated load current for 90-264VAC 90% rated load current for 85-264VAC	
Input Frequency:	Specified: 47-63Hz, Nameplate: 50-60Hz	
Power Factor:	0.90 (min.) @ 230VAC, 0.97 (min.) @ 115VAC	
No Load Input Power:	<150mW @ 230VAC (EU CoC Tier 2 compliant)	
Inrush Current:	30A/60A max. (cold start @ 115V/230VAC)	
Efficiency:	DoE Level VI and EU CoC Tier 2 compliant	
Output		
Turn-on Delay:	1 second typ. @ 115VAC and full load	
Output Regulation:	± 4% (measured at output connector)	
Line Regulation:	± 0.5% typ. (measured at output connector, full load)	
Ripple:	1% or 200mV, whichever is greater (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW, at output connector)	
Turn-On Overshoot:	5% max.	
Transient Response:	5% max. deviation, 1ms recovery time (with 25% to 50% load step)	
Hold-up Time:	20ms min.	
Switching Frequency:	25 - 125KHz, depending on model and load condition	
Power Indicator:	Green LED	
Protections		
Input Protection:	MOV transient suppressor, dual input line fusing	
Over-Current Protection:	105 - 140% of rated output current, auto-restart	
Short-Circuit Protection:	Auto-restart	
Over-Voltage Protection:	110 - 135% (60V max. for output voltage \geq 45V), latched off, cycle AC to reset	
Environmental		
MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)	
Operating Temperature:	-10°C to 40°C (full load)	
Storage Temperature:	-30°C to 80°C	
Humidity:	0% to 95% relative humidity, non-condensing	
Altitude:	5000m	
Cooling:	Convection	

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.



http://www.globtek.com/iso-certificates.php

"Your power partner"

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

RoHS:	May 3, 20 Complies with EU 2011/65/EU and China SJ/T 11363-2006
	Regarding operating temperature
Note 1:	a. See below de-rating table for output power capability at alternate temperature
	b. Extended low-end temperature range available as a custom option
Safety	
Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output 3000VAC or 4242VDC from input to earth (Class I models only)
	Standard models (No suffix): Class I: 20µA max.
	Class II: 70µA max.
Touch Current:	Class II with Functional Earth (F2): 20µA max.
	Low-leakage models (-CF suffix):
	Class II with Functional Earth (F2): 10µA max.
	Standard models are designed for use in Type-B/BF medical applications. Low-leakage
Note 2:	models are designed for use in Type-CF medical applications. (See IEC60601-1, Clause 16.6.1)
Earth Leakage Current	Class I: 300µA max.
	Class II: N/A
Means of Protection:	2 x MOPP
	Class I: C6 or C14 inlet (output negative tied to Earth contact)
Output Isolation Options:	Class II: C8 or C18 inlet
	Class II FE: C6 or C14 inlet (output isolated from Earth contact) Review isolation options by reading our white paper PSU Isolation and Identity.
Earth Continuity Test:	< 0.1Ω between earth pin (on AC inlet) and PCB termination point (Class I models only)
Compliant Standards:	See listing at end of this datasheet for specific standards
EMC	
	Medical: EN60601-1-2, 4th edition
Applicable Standards:	Emissions: EN55032, 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 80-2700MHz, 80% 1KHz AM
EFT/Burst Immunity:	EN61000-4-4, 4KV/100kHz.
Line Surge Immunity:	EN61000-4-5, 2KV differential, 4KV common-mode
Conducted RF Immunity:	EN61000-4-6, 3VRMS, 80% 1KHz AM

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED Page 6 of 15 EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.



http://www.globtek.com/iso-certificates.php

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

Model:GTM961800PWWWVV.V-T2		May 3, 2024
Voltage Dip Immunity:	EN61000-4-11	
Enclosure		
Material/Construction:	High impact plastic, 94V0 polycarbonate, non-vented	
Size:	176.5 * 74.0 * 40.0mm (±1.0mm)	
AC Input Mechanical Options:	Desktop: C6, C7, C14, or C18 inlet	
Markings:	Label and/or pad printed and/or laser-etched into case	

Special Options

- 1. Custom cordsets, cord types, and connector types
- 2. Custom markings
- 3. Custom housing and cordset colors
- 4. Constant current/constant voltage (CC/CV) output behavior, with compliance voltage between (75% * Vout) and (100% * Vout)
- 5. Short term output surge power capability, for motor applications and short term intermittent high power applications. (Up to 300W for 1 second.)
- 6. IEC61000-3-2 Class C line harmonics for LED lighting applications
- 7. "Back EMF" upgrade, for motor loads and other high inductance applications with reverse energy flow requirements
- 8. Reduced touch/leakage current for IEC60601-1 Type-CF applications. (Available in models with -CF suffix.)
- 9. High reliability PCB laminate with plated through-holes for IPC610 Class 2 compliance
- 10. Tightened output voltage tolerance
- 11. Reduced output ripple level
- 12. Reduced output power rating
- 13. Improved ingress protection (IP) rating

Output Connectors

- Several output connector options are available with various output current ratings. GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our 10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.
- Please visit our real-time listing of mating connector product offering: https://en.globtek.com/news/high-current-coaxial-barrel-plug-jacks-for-high-wattage-power-supplies

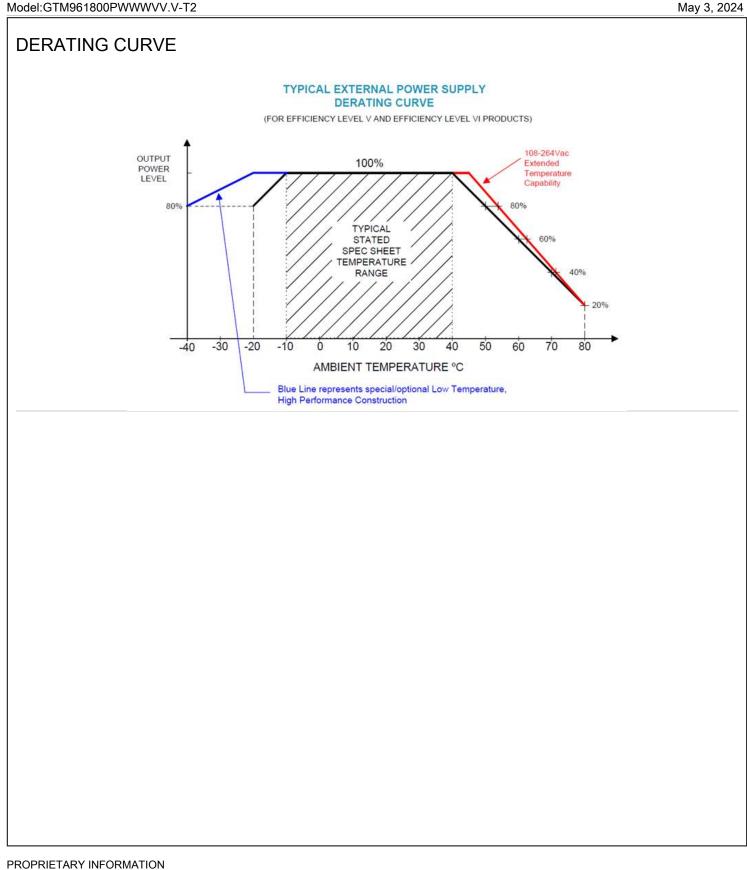


"Your power partner"

http://www.globtek.com/iso-certificates.php

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

Model:GTM961800PWWWVV.V-T2





http://www.globtek.com/iso-certificates.php

320/C7

320/C7

320/C7 IEC

320/C7

IEC320/C7 1830

1830 6

1830 6

2000

6

7

IEC

IEC

NEMA

1-15P

BS 546

CNS690

BS1363

Your power partner

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

Model:GTM961800PWWWVV.V-T2 May 3, 2024 INPUT CONFIGURATION Description IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8") 16.5 œ 36 02 8.6 Mates with IEC 60320/C7 Plug Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. Please contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material. Standard International IEC 320/C7 Cordsets Length Length Part Number Type Standard Connector (mm) (feet) IRAM IEC 2094112M703(R) Argentina (Type I) 2000 7 2063 320/C7 IEC 5014112M703A(R) Australian (Type I) AS 3112 2000 7 320/C7 NBR14136 207B4111M8703(R) Brazil (Type N) 1800 6 320/C7 IEC 4533501M8703(R) China (Type A) GB 2099.1 1830 6 320/C7 IEC CEE 7/16 7 2074112M703A(R) European (Type C) 2000 320/C7 IEC 2074112M703AEUSA(R) European/South Africa Combo(Type C) CEE 7/16 2000 7 320/C7 IEC IS 1293 2084111M8703B(R) India (Type D) 1800 6 320/C7 IEC JIS 8303 451J3401M8703(R) Japan (Type A) 1830 6 320/C7 IEC KS C8305 2044112M703A(R) 2000 7 Korea (Type C)

PROPRIETARY INFORMATION

4511116F703A(R)

2084111M8703(R)

4033401M8703A(R)

6104112M703A(R)

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED Page 9 of 15 EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

https://www.globtek.com/ds/7PKEVWet3Aj/d5z6raFTT6s.html

North America (Type A)

UK, Hong Kong, Singapore, Gulf States (Type G)

South Africa (Type M)

Taiwan (Type A)

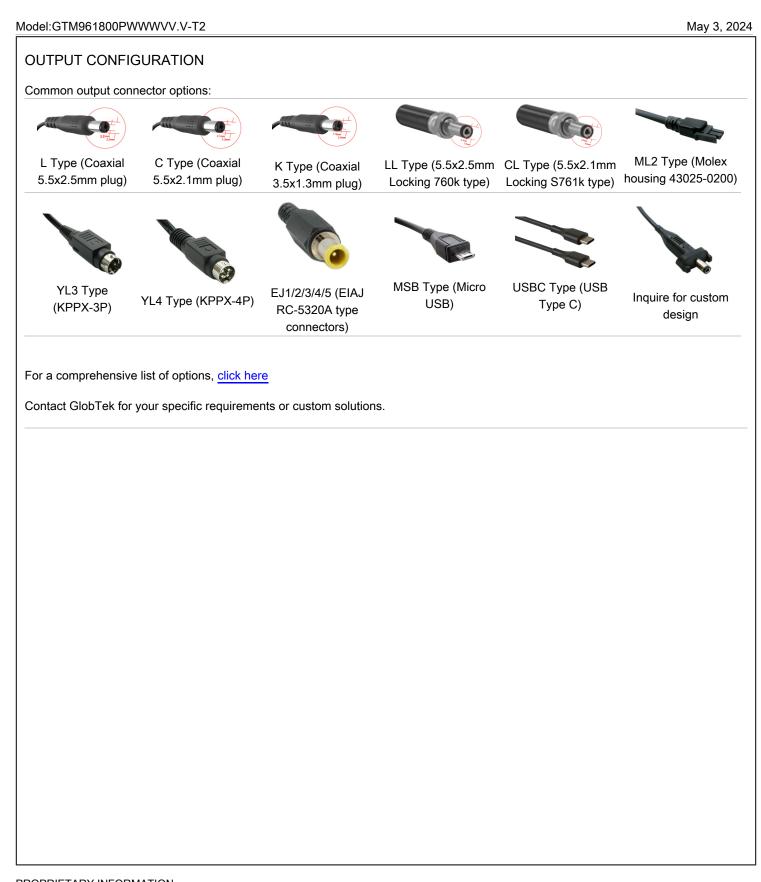


http://www.globtek.com/iso-certificates.php

1G1116F703A(R)	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and th	e Nema	IEC320/C7	1830	6
	United Arab Emirates (UAE)(Type A)	1-15P			
03742M5703(R)	Thailand (Type C)	TIS 166-2549	IEC320/C7	2500	8
<u>3742103703(1()</u>		166-2549	120320/07	2300	0



http://www.globtek.com/iso-certificates.php





http://www.globtek.com/iso-certificates.php

May 3, 2024

"Your power partner"

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

Model:GTM961800PWWWVV.V-T2

Approvals	
Logo	Description
No Logo Applicable	IEC 60601-1-11:2015
No Logo Applicable	IEC 60601-1: 2005 + C1 + C2 + A1
No Logo Applicable	CB for 60335-1:2010/COR1:2010/COR2:2010 /AMD1:2013/COR1:2014/AMD2:2016/COR1:2016
No Logo Applicable	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
CE	CE Certification
n Intertek 4007407	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]
Interfek 4007497	cETLus-Cert-4007497 ANSI/AAMI ES60601-1:2005 with AMD C1: 2009, AMD C2: 2010 and CAN/CSA-C22.2 No. 60601-1 2008 with COR 2:2011+ANSI/AAMI HA60601-1-11 Ed:1
ntertek 4007407	cETLus-Cert-60950-1 4007497 Listed

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED Page 12 of 15 EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.



http://www.globtek.com/iso-certificates.php

"Your power partner"

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

	V-T2 May 3,
3 0	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.
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. 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
Conforms to UL Std.62368-1 Cert. to CSA Std.C22.2 No.62368-1	Conforms to UL Std.62368-1 Cert. to CSA Std.C22.2 No.62368-1
EHE	Declaration ДС № ЕАЭС N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <u>http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</u>
F©	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with a standar 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.
600599A	Hong Kong Safety Mark License IEC62368-1:2018
	Indoor Use Only - Mark is on the label or Molded in the case

PROPRIETARY INFORMATION
PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED
EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.
https://www.globtek.com/ds/7PKEVWet3Aj/d5z6raFTT6s.html



http://www.globtek.com/iso-certificates.php

"Your power partner"

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

Model:GTM961800PWWWVV.V-	T2 May 3, 2024
DC-E-G71-007.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-007.2 to IEC 62368-1:2014
Glob Tek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: <u>https://www.globtek.com/r2/Szj4Vb</u>
Glob Tek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: <u>https://www.globtek.com/r2/Szj4Vb</u>
GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, 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
	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)
Ø	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
	RCM certificate SAA-200887-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
S Intertek	EN 60601-1:2006 + A1:2013 + A12:2014 EN 60601-1-11:2015

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED Page 14 of 15 EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.



"Your power partner" http://www.globtek.com/iso-certificates.php

V.V-T2	May 3, 202
S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (http://www.intertek.com/marks/s/)	
UKCA Certification	
Ukraine UKRSepro (Document: <u>www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</u>)
Japan: Voluntary Control Council for Interference (VCCI)	
WEEE: Complies with EU 2012/19/EU (<u>http://ec.europa.eu/environment/waste/weee/in</u> Mark is on the label or Molded in the case	dex_en.htm)
	http://www.intertek.com/marks/s/) UKCA Certification Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf Japan: Voluntary Control Council for Interference (VCCI) WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/interference)