

Model:GTM96180-18VV H/M

May 20, 2024

0-18W Interchangeable Multiplug Wall plug in power supply adapter for Medical Grade, ITE/ICT, and Household use.

Information

Model Number	GTM96180-18VV H/M
Description	4th Edition of Medical IEC60601, IEC 62368, IEC 60335, LPS, DOE EPS 2.0 Level VI Compliant Power Supply / Charger / AC Adapter, 18W with 4-48VDC output options

Model Picture



Agency Documents	http://www.globtek.info/certs/GTM96180/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MjRI5EAN
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MjRI5EAN
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

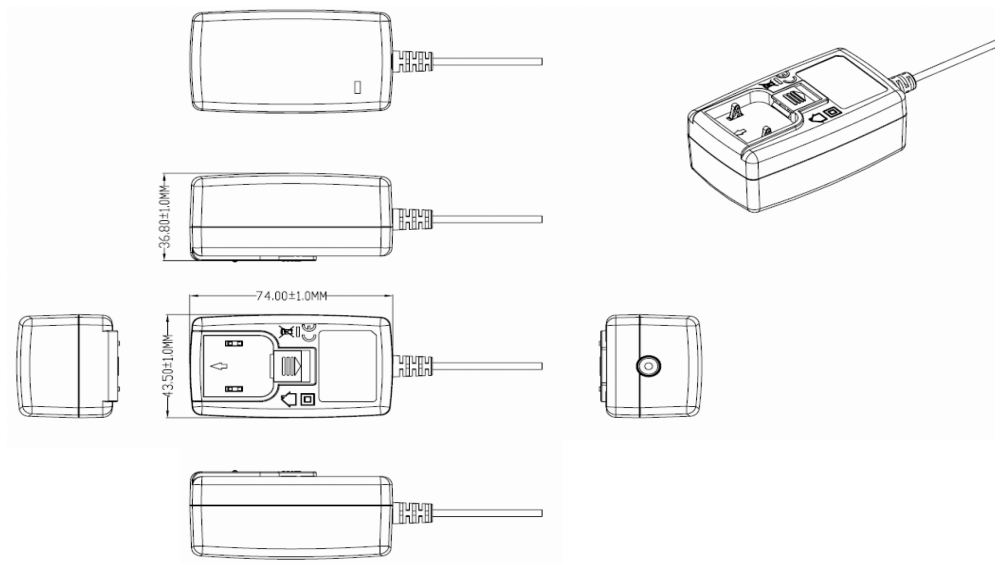
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	18.0
Vout Range (V)	4-48
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP42 (Optional IP54-IP55)
Size (mm)	74*43.5*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
GTM96180-1607-2.0	5 V	3.2	16.00	RFQ
GTM96180-1507-2.0	5 V	3	15.00	RFQ
GTM96180-1207-2.0-CF	5 V	2.5	12.50	RFQ
GTM96180-1207-2.0	5 V	2.4	12.00	RFQ
GTM96180-1807-1.05	5.95 V	3.02	17.97	RFQ
GTM96180-1511-2.0-CF	9 V	1.66	14.94	RFQ
GTM96180-1811-2.0	9 V	2	18.00	RFQ
GTM96180-1511-1.0-CF	10 V	1.5	15.00	RFQ
GTM96180-1817.9-7.9	10 V	1.8	18.00	RFQ
GTM96180-1517.9-5.9-CF	12 V	1.25	15.00	RFQ
GTM96180-1817.9-5.9	12 V	1.5	18.00	RFQ
GTM96180-1817.9-4.4	13.5 V	1.33	17.96	RFQ
GTM96180-0817.9-4.1	13.8 V	0.6	8.28	RFQ
GTM96180-1817.9-3.9	14.0 V	1.285	17.99	RFQ
GTM96180-1517.9-2.9-CF	15 V	1	15.00	RFQ
GTM96180-1817.9-2.9	15 V	1.2	18.00	RFQ
GTM96180-1817.9-1.9	16.0 V	1.12	17.92	RFQ
GTM96180-1817.9-0.9	17.0 V	1.05	17.85	RFQ
GTM96180-1530-12.0-CF	18 V	0.83	14.94	RFQ
GTM96180-1530-12.0	18 V	0.8	14.40	RFQ
GTM96180-1830-12.0	18 V	1	18.00	RFQ
GTM96180-1830-11.0	19 V	0.94	17.86	RFQ
GTM96180-1830-10.0	20 V	0.9	18.00	RFQ
GTM96180-1830-8.0	22 V	0.81	17.82	RFQ
GTM96180-1530-6.0	24 V	0.625	15.00	RFQ

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GTM96180-1130-6.0	24 V	0.45	10.80	RFQ
GTM96180-1530-6.0-CF	24 V	0.625	15.00	RFQ
GTM96180-1830-6.0	24 V	0.75	18.00	RFQ
GTM96180-1830	30 V	0.6	18.00	RFQ
GTM96180-1848-12.0	36 V	0.5	18.00	RFQ
GTM96180-1548-CF	48 V	0.31	14.88	RFQ
GTM96180-1848 (6w)	48 V	0.125	6.00	RFQ
GTM96180-1848	48 V	0.375	18.00	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 (EU CoC Tier 2 compliant)
Inrush Current:	30A/60A maximum, cold start @ 115VAC/230VAC input, respectively
Efficiency:	DoE Level VI compliant, EU CoC Tier 2 compliant

Output

Turn-on Delay:	1 second max. @ nominal line and full load
Output Regulation	± 5% max. (measured at the output connector)
Line Regulation:	± 0.5% typ. (measured at the output connector, full load)
Ripple:	1% or 100mV, whichever is greater (measured using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW, at output connector)
Transient Response:	5% max. deviation (with 40-70% load step), 1ms typ. recovery time
Hold-up Time:	8ms typ. @ nominal line and full load
Power On Indicator:	Green LED

Protections

Input Protection:	MOV transient suppressor, input line fusing
Over-Voltage Protection:	110-130% of nominal output voltage
Short-Circuit Protection:	Auto-restart
Over-Current Protection:	110-160% of rated output current (Current limit range is determined by normal output power rating, not derated power level)

Environmental

MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)
Operating Temperature:	-20°C to 40°C (full load) See derating table for output power capability at other temperatures. Extended low temperature range available as a custom option.
Storage Temperature:	-30°C to 80°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude:	5000m
Ingress protection:	IP42 standard, IP52 available as a special option

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Cooling:	Convection
RoHS:	Complies with EU 2011/65/EU amended by EU 2015/863 and China SJ/T 11363-2006

Safety

Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output 3000VAC or 4242VDC from input to earth (Class I models)
Touch Current:	Class I models: < 20uA Class II models: <75uA
Earth Leakage Current:	Class I models: <300uA Class II models: N/A
Isolation Options:	Floating output or Class I earthed output (desktop models)
Earth Continuity Test:	< 0.1 ohm between AC inlet earth pin and PCB termination point
Means of Protection (Primary-to-Secondary):	2 x MOPP
Compliant Standards:	See listing at the end of this document.

EMC

Applicable Standards:	Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN61000-6-3, EN61000-6-4 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, 8KV contact discharge, 20KV 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, 2KV differential, 4KV common-mode
Conducted RF Immunity:	EN61000-4-6, 3VRMS, 80% 1KHz AM
Power Frequency Magnetic Field Immunity:	EN61000-4-8, 30A/m
Voltage Dip Immunity:	EN61000-4-11

Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented
AC Input Mechanical Options:	Wall plug-in, changeable blades (Class II only) Desktop housing, extended housing: C6, C8, C14, or C18 IEC inlet (Class I or Class II)
Markings:	Label or laser printed

Special Options

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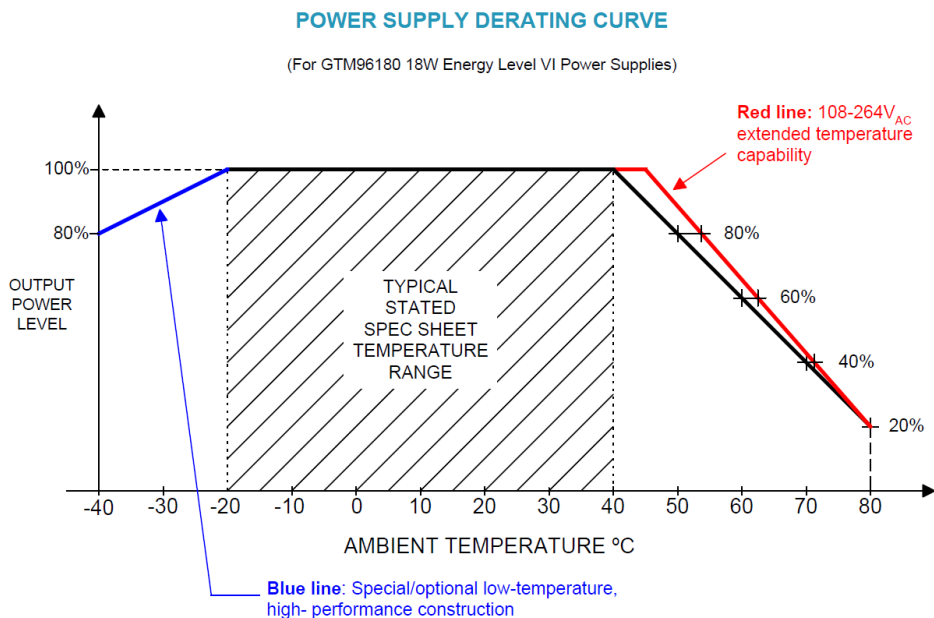
1. Removal of LED (optional)
2. Custom cord-sets (custom cord and/or connector types). Note: 5VDC USB power supplies with Micro-B or Type-C connectors have a voltage regulation specification of $\pm 8\%$ (4.6V to 5.4V).
3. Custom markings
4. Short term output surge capability
5. Reduced leakage current versions (10uA max) for Type-CF medical applications and/or for AC noise sensitive equipment. (15W or less, 5 to 24V output voltage range.)
6. Tightened output voltage tolerance
7. Reduced output voltage ripple
8. Improved reliability PCB laminate with plated-through-holes for IPC610 Class 2 compliance
9. Custom housing colors
10. Quasi constant-current output for SLA (lead-acid) battery charging applications

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DERATING CURVE



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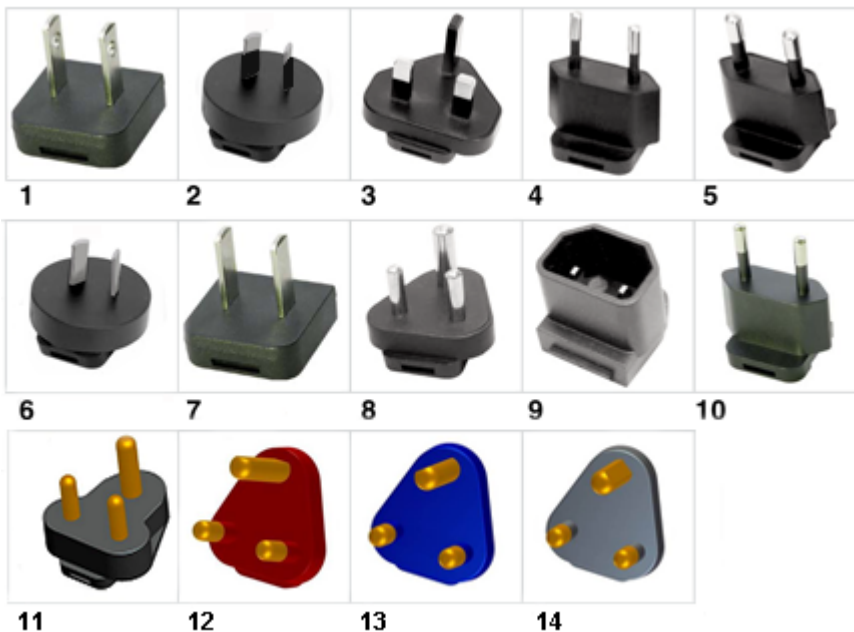
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INPUT CONFIGURATION

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
	Book 60335 up to 36 Volts
No Logo Applicable	IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) for GTM96180 only
No Logo Applicable	CB for IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CB report to IEC 61558-2-16_2009 + A1_2013 IEC 61558-1_2005 2nd Edition + 61558-1-16_2009 EN 61558-1_2005 + A1_2009.pdf
	CCC to GB4943. 1-2011; GB9254-2008; GB17625. 1-2012 with Tropical and Alt approval.
No Logo Applicable	IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 60601-1-2.2015 EN 55024.2010
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety [UL 62368-1:2014 Ed.2]

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	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety [CSA C22.2#62368-1:2014 Ed.2]
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 2007/03/27, Ed: 2 Rev: 2014/10/14) Information Technology Equipment Safety Part 1: General Requirements (CSA C22.2 Issued: 2007/03/27 Ed: 2 (R2012) Amd.
 Class 2 Power Unit	cETLus-Cert 4007497 UL1310 Recognized Component up to 42.4 volts
	AAMI ES60601-1 Issued: 2012/08/20 Med Electrical Equipment - Part 1: CAN/CSA No.60601-1:14, 3rd Edition Issued: 2014/03/01 - Med Electrical Equipment - Part 1 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.- Part 1-11: GTM96180 only
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration.pdf
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 for GTM96180 family only
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
	
	Declaration ДС № EA3C N RU Д-US.KA01.B.10453_19 Custom Union of Russia Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration

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No Logo	Greenhouse and Energy Minimum Standards (GEMS) for model GTM96180-181
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with the actual system load. The FCC law stipulates that system-level testing is required to demonstrate compliance with the FCC emission limits with the actual system load.
T1.6A 250VAC 	Fuse 60335 T1.6A 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 system 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 GTM96180 5v, 5.95v, 7.5v, 9v, 12v, 15v, 19v, 20v
	Indoor Use Only - Mark is on the label or Molded in the case
IP42	Ingress Protection: IP42 to IEC60529:2001 Protection against granular foreign bodies - Protected against direct sprays up to 150mm from the vertical
 DC-E-G71-009.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate to IEC 60950-1:2005 + A1:2009
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561.pdf, to J62368-1(H30) , J55032(H29), [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), J55032(H30), [30V~60V]. Please reference the following website for PSE regulations: https://www.globtek.com/r2/Szj4Vb

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 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471561, to J62368-1(H30) , J55032(H29), J less]. Please reference the following website for PSE regulations: https://www.globtek.com/iso-certificates.php
	Korea HU10499-19038A (for GTM96180-1830-6.0)
 직류전원장치 AC/DC ADAPTER KTC HU10499-19038A R-R-GSZ-GTM96180-1824 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명:GTM96180-1830-6.0 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea HU10499-19038B (for GTM96180-1830-6.0) 19V-30V
EFFICIENCY LEVEL 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), CE (Europe)
LPS	Limited Power Source 60950
LPS	Limited Power Source 62368
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
	NOM MEXICO -ANCE FOR GTM96180 12V only
 GMA-514770-EA	RCM certificate GMA-514770-EA; Australia and New Zealand Regulatory Compliance http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863/EU http://www.ce-mark.com/Rohs%20final.pdf
 Intertek	S-Mark Certificate EN 62368-1:2014 + A11 (http://www.intertek.com/marks/s/)

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 Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60950-1 and (EN60601-1 for GTM96180 family only).
 220572-24	Singapore 220572-24 GTM96180-1817.9-5.9
	UKCA Certification
 10276	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukrai)
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/w) Mark is on the label or Molded in the case