

Model:GTM96600-60VV.V-T3

May 5, 2024

GTM96600-60VV.V-T3

Information

Model Number

GTM96600-60VV.V-T3

Description

GTM96600-60VV.V-T3, ICT / ITE / Medical Power Supply/Class 2/Household Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-54V in 0.1V increments, Approvals: LPS 60950; India BIS; IP41; CB 60335; Fuse 60335; 230V CoC Tier 2; ETL; EAC; South Africa; UL 1310; cETLus 60950-1; cETLus 60601-1-11; CB 62368; UKCA; Conforms to 62368-1; NRCAN (5V only); Morocco; NOM (5V only); UL 1310; Korea (21.0V-28.0V Only); Singapore (19V); NOM (12V only); Malaysia; IRAM; Taiwan BSMI (24V only); 61558-1; IEC 61558-1; RCM; S-Mark 60950; IRAM; Ukraine; CB 60950; Class I; ETL 60950; CCC; CB 60601-1; S-Mark IEC/EN 60601-1; cETLus 60601-1; cULus (5V only); Taiwan BSMI (5V, 6.3V,12V only); Korea (6.3V Only); PSE; PSE; PSE; WEEE; VCCI; CE; Level VI; China RoHS; RoHS; FCC;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM96600-TZ/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmCcmEAF

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmCcmEAF

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	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply/Class 2/Household Power Supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	5-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP41
Size (mm)	117.5*53.5*34.2

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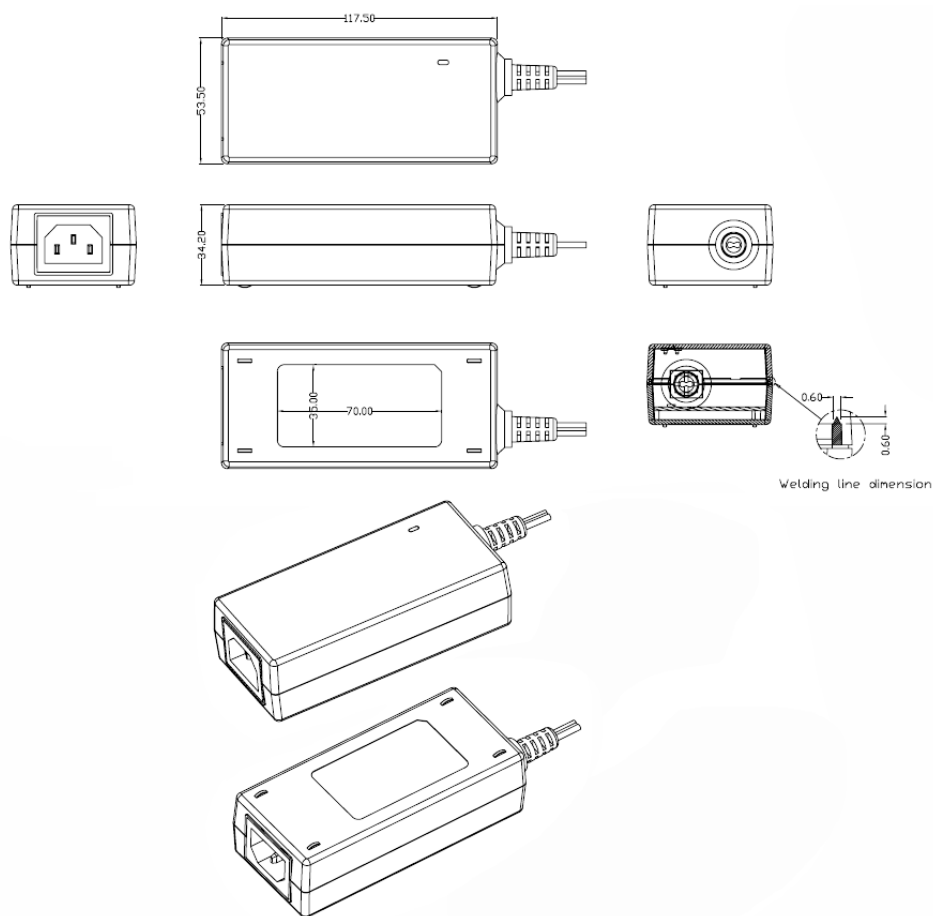
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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM96600-4005-T3	5 V	8	40.00	RFQ
GTM96600-4005.1-T3	5.1 V	7.843	40.00	RFQ
GTM96600-4005.9-T3	5.9 V	6.77	39.94	RFQ
GTM96600-4808-T3	8 V	6	48.00	RFQ
GTM96600-5409-T3	9 V	6	54.00	RFQ
GTM96600-6010-T3	10 V	6	60.00	RFQ
GTM96600-6011-T3	11 V	5.45	59.95	RFQ
GTM96600-4812-T3	12 V	4	48.00	RFQ
GTM96600-6012-T3	12 V	5	60.00	RFQ
GTM96600-5012-T3	12 V	4.17	50.04	RFQ
GTM96600-4512-T3	12 V	3.75	45.00	RFQ
GTM96600-2412-T3	12 V	2	24.00	RFQ
GTM96600-6013-T3	13 V	4.615	60.00	RFQ
GTM96600-6015-1.2-T3	13.8 V	4.34	59.89	RFQ
GTM96600-6014-T3	14 V	4.285	59.99	RFQ
GTM96600-6015-1.0-T3	13.8 V	4.28	59.92	RFQ
GTM96600-5015-T3	15 V	3.33	49.95	RFQ
GTM96600-6015-T3	15 V	4	60.00	RFQ
GTM96600-6016-T3	16 V	3.75	60.00	RFQ
GTM96600-6017-T3	17 V	3.259	55.40	RFQ
GT-7TD-30-18	18 V	1.67	30.06	RFQ
GTM96600-6018-T3	18 V	3.333	59.99	RFQ
GTM96600-6019-T3	19 V	3.15	59.85	RFQ
GTM96600-6020-T3	20 V	3	60.00	RFQ
GTM96600-2424-T3	24 V	1	24.00	RFQ

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GTM96600-6024-T3	24 V	2.5	60.00	RFQ
GTM96600-6027-T3	27 V	2.22	59.94	RFQ
GTM96600-6028-T3	28 V	2.14	59.92	RFQ
GTM96600-6030-T3	30 V	2	60.00	RFQ
GTM96600-5133.5-T3	33.5 V	1.5	50.25	RFQ
GTM96600-6035-T3	35 V	1.714	59.99	RFQ
GTM96600-6048-T3	48 V	1.25	60.00	RFQ
GTM96650-6554-T3	54 V	1.203	64.96	RFQ
GTM96600-6054-T3	54 V	1.11	59.94	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) for ≤ 49W rating <150mW @ 230VAC (EU CoC Tier 2 compliant) for > 49W rating
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 max. @ 115VAC and full load
Output Regulation:	± 5% (measured at output connector)
Line Regulation:	± 0.5% typ. (measured at output connector)
Ripple:	1% or 100mV, whichever is greater (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW, at output connector)
Transient Response:	5% max. deviation, 1ms typ. recovery time (with 40% to 70% load step)
Hold-up Time:	8ms typ. (nominal input voltage and full load)
Power Indicator:	Green LED

Protections

Input Protection:	MOV transient suppressor, input line fusing
Over-Current Protection:	110 - 160% of rated output current, auto-restart, current limit range determined by normal output power rating, not de-rated power rating
Short-Circuit Protection:	Auto-restart
Over-Voltage Protection:	110 - 130%, latched off, cycle AC to reset
Over-Temperature Protection:	On-chip temperature sensor (integrated in primary-side switching controller), shut down at Tj = ~140°C, latched off, cycle AC to reset

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)
Storage Temperature:	-30°C to 80°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude:	5000m

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Cooling:	Convection
RoHS:	Complies with EU 2011/65/EU and China SJ/T 11363-2006
Note 1:	Regarding operating temperature 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)
Touch Current:	Class I: 20μA max. Class II: 85μA max. Class II F2: 20μA max.
Earth Leakage Current	Class I: 300μA max. Class II: N/A
Means of Protection:	2 x MOPP
Output Isolation Options:	Class I: C6 or C14 inlet (output negative tied to Earth contact) 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

Applicable Standards:	Medical: EN60601-1-2, 4th edition 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, 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, 3A/m
Voltage Dip Immunity:	EN61000-4-11

Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented Desktop: C6, C7, C14, or C18 inlet
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AC Input Mechanical Options:	Hybrid: Desktop inlet or changeable blades for wall-plug-in style, Class I or Class II input
Markings:	Label and/or pad printed and/or laser-etched into case

Special Options

1. Removal of LED (cost reduction or aesthetic purpose)
2. Custom cordsets, various cordage types, and connector types
3. Custom markings
4. Short term output surge capability for motors or other high peak current loads. (Available up to 120W for 1 second at nameplate voltage range. Higher levels possible for limited input voltage range, or larger allowed voltage dip.)
5. Reduced leakage current
6. Tightened output voltage tolerance
7. Reduced output ripple level
8. Reduced output power rating
9. High reliability PCB laminate with plated through-holes for IPC610 Class 2 compliance
10. Low temperature option, down to -40°C
11. Special housing and cordset colors
12. "Back EMF" upgrade, for motor loads and other high inductance applications with reverse energy flow requirements
13. Improved ingress protection (IP) rating

Output Connectors

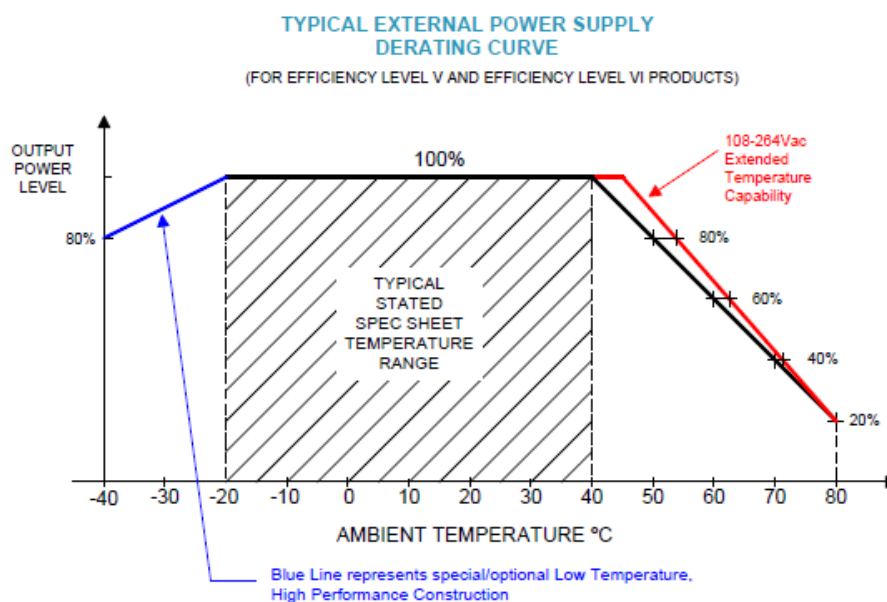
- Several output connector options are available with various output current ratings. GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our 10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.
- Please visit our real-time listing of mating connector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

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DERATING CURVE

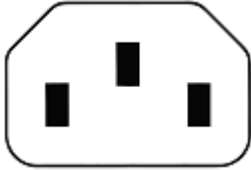


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INPUT CONFIGURATION

Description IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptacle and cord option available on some models by request.:



[Standard International IEC 320/C13 Cordsets](#)

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

Stock Power Supply Cords

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
3021457F701(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
1191068F0701(R)	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
2194272M5701-T(R)	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
5502022M5701A(R)	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
204B4272M5701(R)	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
6023602M5701(R)	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
G8014272M5701(R)	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
			IEC		

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23144272M5701-T(R)	Europe (Type E)	CEE 7/7	320/C13	2500	8
23134272M5701EUKR(R)	Europe/Korea Combo (Type E)	CEE 7/7 / KSC8305	IEC 320/C13	2500	8
205IN4272M5701(R)	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
208IN4272M5701(R)	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C13	2500	8
377C4272M5701(R)	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
23024272M5701(R)	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
3003339F701(R) [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
3003068F2701-HK(R) [3 x 2.0mm2]					
302J115J6F0701J(R)	North America / Japan (Type B – 12A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302J104J6F0701J(R)	North America / Japan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302JT104J9F0701JT(R)	North America / Japan / Taiwan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved), Taiwan CNS 6797 (BSMI Approved)	IEC 320/C13	2800	9
2313K3432M5701(R)	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
5804272M5701(R)	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
2084272M5701(R)	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8
23214272M5701(R)	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
3003322M5701(R)	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
6363762M5701(R)	Thailand (Type O)	TIS 166-2549	IEC 320/C13	2500	8
PZ0800100-2M5BK13H(R)	UK, Hong Kong,Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
7055002M5701A(R)	International	IEC 320 C14-C13	IEC 320/C13	2500	8

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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
	Taiwan BSMI R32282 GTM96600-3606.3-T3; GTM96600-4005-T3; GTM96600-6012-T3 http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2
	Taiwan BSMI R37924 GTM96600-6024-T3 http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2
No Logo Applicable	CB for IEC 60601-1:2005+A1
No Logo Applicable	CB for IEC 60335-1:2010+A1
No Logo Applicable	CB for IEC 60950-1:2005+A1+A2
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)

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 5000	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
	Test standard: EN 55032:2012+AC:2013 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55024:2010 EN 60601-1-2:2015
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%
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
	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements) (for 5V only)
	Declaration DC № EA9C N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus, Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration

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	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Ess Performance [AAMI ES60601-1:2005 +A1]
	Information Technology Equipment Safety Part 1: General Requirements >Valid without revision:01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014]
 Class 2 Power Unit	Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014] Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with output load. The FCC law stipulates that system-level testing is required to demonstrate with the FCC 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 GTM96600-6012-R3A, GTM96600-4005-R3A, GTM96600-4005-T3, GTM96600-6012-T3, GTM96600-6015-T3, GTM96600-6019-T3, GTM96600-6024-T3, GTM96600-6048-T3
	Indoor Use Only - Mark is on the label or Molded in the case
IP41	Ingress Protection: ?IP41 to IEC60529:2001 Protection against granular foreign bodies - Protected against vertically falling drops of water
 DC-E-G71-002.9 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-002.9 to IEC 60950-1:2005 + A1:2009 +A2:2013

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 DC-E-G71-009.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate GTM96600 GTM91099 T3(A) R3A to IEC 62368-1:2014
 GlobTek, 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 guide regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, 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 guide regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H less). Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 직류전원장치 AC/DC ADAPTER KTC HU10499-17032A MSIP-REM-GSZ-GTM96600 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명: GTM96600-3606.3-T3 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea HU10499-17032A (for GTM96600-3606.3-T3 (6.3V)
 직류전원장치 AC/DC ADAPTER KTC HU10499-20041A R-R-GSZ-0003 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델명: GTM96600-6024-T3 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea HU10499-20041A for GTM96600-6X24-T3, T3A, R3A (21.0V-28.0V)
EFFICIENCY LEVEL VI	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) co Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of (Europe)
LPS	Limited Power Source (under 6A) 60950
No Logo	Malaysia ST Release Letter GTM96600-6016-R2 IEC62368-1(Ed.2): No logo

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<https://www.globtek.com/ds/WurjGaEtqgH/jvAPfDUy4K7.html>

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Model:GTM96600-60VV.V-T3

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	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
	Canadian Energy Efficiency Regulations incorporating amendments 1 (only for model GTM96600-4005 only)
	NOM (Mexico) to NOM-029-ENER-2017 and NOM-001-SCFI-2018 GTM96600-4005-T3
	NOM (Mexico) to NOM-001-SCFI-1993 (12 Volts only)
 GMA-513607-EA	RCM certificate ; Australia and New Zealand Regulatory Compliance, Mark (http://rcmstandards.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 60601-1:2006+A1+A12, EN 60601-1-11:2015
 Intertek	S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (http://www.intertek.com/marks/s/

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Model:GTM96600-60VV.V-T3

May 5, 2024

 RoHS Symbol Serial NO. Class NO for production YEAR WEEK	Serial Number Information
	Singapore to IEC 62368 GTM96600-6019-T3 (for 19V only)
No Logo	South Africa approval to SANS IEC 60950
	Transformer Symbol IEC 61558-1 SMPS Short-Circuit –Proof Safety Isolating Transform
	Transformer Symbol IEC 61558-1 SMPS Switch Mode Power supply
	UKCA Certification
 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 36 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.htm) Mark is on the label or Molded in the case