

Model:GTM91099-60VV-T2

May 9, 2025

GTM91099-60VV-T2

Information

Model Number

GTM91099-60VV-T2

Description

GTM91099-60VV-T2, Medical/ICT/ITE/Household use Power Supply, 60601-1-4th Ed. , Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 AC Inlet connector, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: ETL; Korea (16V, 18V, 19V, 20V, 24V Only; UKCA; India BIS 5V, 12V, 13.8V, 15V, 18V, 19V, 20V, 24V, 36V, 48V; Korea (9.1V,10V,11V,12V, 13V,13.8V,14V,15V Only); CB 62368; Conforms to 62368-1; ETL 62368; IEC 61558-1; 61558-1; South Africa; CE; Ukraine; Level V; China RoHS; WEEE; CE; EC; RoHS; VCCI; IEC 60335; Fuse 60335; LPS 60950; Book 60601; Double Insulation; CB 60601-1 2MOPP; RCM; CE; CCC; cRUus; cULus; CB 60950; CB EN/IEC 60335-1; Peru; IRAM; Taiwan BSMI (16V only); SGS (Brazil); Singapore (16V only);Malaysia; Colombia; NOM (16V only); IEC/EN60601-1; IRAM; CE; EAC; S-Mark IEC/EN 60601-1 60950; ETL; CB 61158; South Africa; South Africa; PSE; PSE; PSE; FCC; IP42; 2MOPP; CB 60601-1;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM91099/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a0O30000007P7ZeEAK

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a0O30000007P7ZeEAK

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

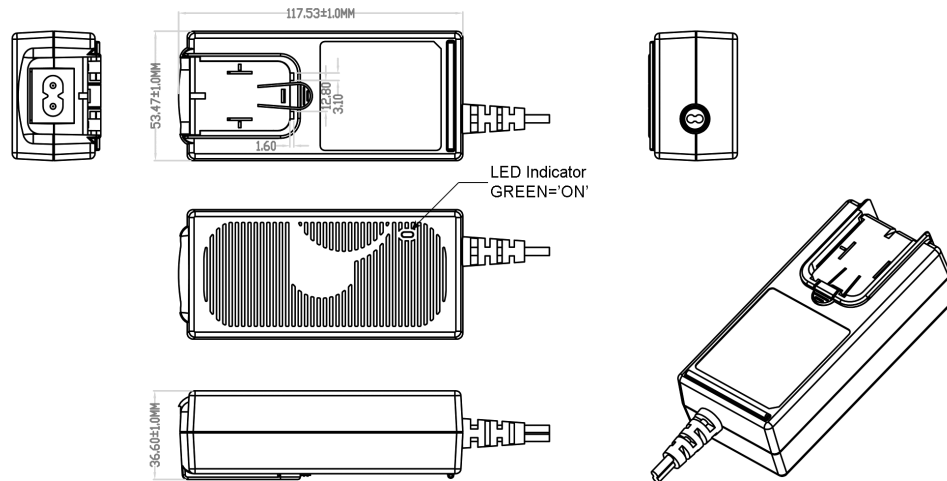
Type	Wall Plug-in+Desktop Combination
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical/ICT/ITE/Household use Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5 A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	IP42
Size (mm)	117.53*53.47*36.6

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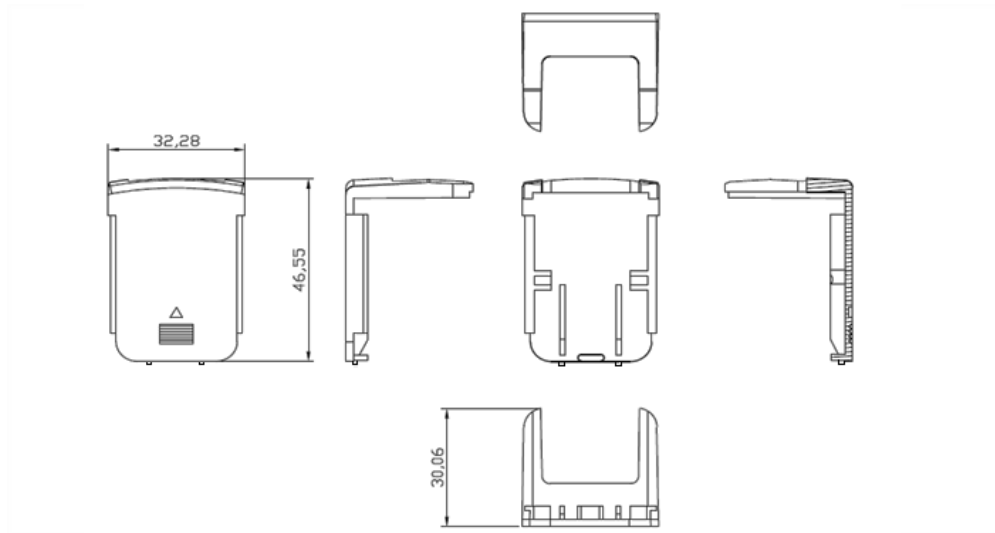
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ENCLOSURE



Units shipped without an installed input plug have a "desktop insert" installed.



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91099-3009-4.0-T2	5 V	6	30.00	RFQ
GTM91099-2509-4.0-T2	5 V	5	25.00	RFQ
GTM91099-3009-4.0-T2	5 V	6	30.00	RFQ
GTM91099-3009-3.0-T2	6 V	5	30.00	RFQ
GTM91099-3009-2.5-T2	6.5 V	4.6	29.90	RFQ
GTM91099-3009-1.0-T2	8 V	3.75	30.00	RFQ
GTM91099-4509-T2	9 V	5	45.00	RFQ
GTM91099-4509-T2	9 V	5	45.00	RFQ
GTM91099-6015-3.0-T2	12 V	5	60.00	RFQ
GTM91099-6015-3.0-T2	12 V	5	60.00	RFQ
GTM91099-6515-2.4-T2	12.6 V	5.15	64.89	RFQ
GTM91099-6015-1.2-T2	13.8 V	4.34	59.89	RFQ
GTM91099-6015-T2	15 V	4	60.00	RFQ
GTM91099-6015-T2	15 V	4	60.00	RFQ
GTM91099-6024-8.0-T2	16 V	3.75	60.00	RFQ
GTM91099-6024-6.0-T2	18 V	3.33	59.94	RFQ
GTM91099-6019-T2	19 V	3.15	59.85	RFQ
GTM91099-3024-4.0-T2	20 V	1.5	30.00	RFQ
GTM91099-6024-4.0-T2	20 V	3	60.00	RFQ
GTM91099-6024-T2	24 V	2.5	60.00	RFQ
GTM91099-6024-T2	24 V	2.5	60.00	RFQ
GTM91099-6048-18.0-T2	36 V	1.66	59.76	RFQ
GTM91099-6048-12.0-T2	36 V	1.66	59.76	RFQ
GTM91099-6036-T2	36 V	1.66	59.76	RFQ
GTM91099-4048-T2	48 V	0.833	39.98	RFQ

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<https://www.globtek.com/ds/W68iN3X2qz5/amSqm6mBMf.html#datasheet>

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GTM91099-6048-T2	48 V	1.25	60.00	RFQ
GTM91099-6048-T2	48 V	1.25	60.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% nominal output voltage measured at the output connector at nominal line
04. Line Voltage Regulation: +/- 2% max at full load
05. Output Ripple (Vp-p): +/-1% or 150mV whichever is greater at nominal output voltage. 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.
06. Turn-ON/OFF Overshoot: 5% max, 500uS max recovery time for 25% to 50% step load
07. Turn-ON Delay: 2 Seconds, maximum @ full load, nominal line
08. Hold-Up Time: 8 mS at nominal input and full load
09. Inrush Current: 40A max at cold start 120 VAC, 60A max cold start 230VAC
10. Switching Frequency: 100 KHz typical

B) PROTECTION

1. Over-Voltage: Protected, Hiccup with auto recovery
2. Short Circuit: Protected, Hiccup with auto recovery
3. Over-load: Protected, Hiccup with auto recovery
4. Input Protection: Input line and neutral fusing
5. Means of Patient Protection: (2 x MOPP)

C) SAFETY

01. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
02. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
03. Means of Protection: 2 x MOPP
04. Primary to Secondary Bridging Capacitor: (2) * Y1 type capacitors in series

D) OTHER:

1. MTBF: 200,000 Hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature
3. Humidity: 0% to 90% relative humidity
4. Storage Temperature: -10°C to 80°C
5. Cooling: Convection

E) ENCLOSURE

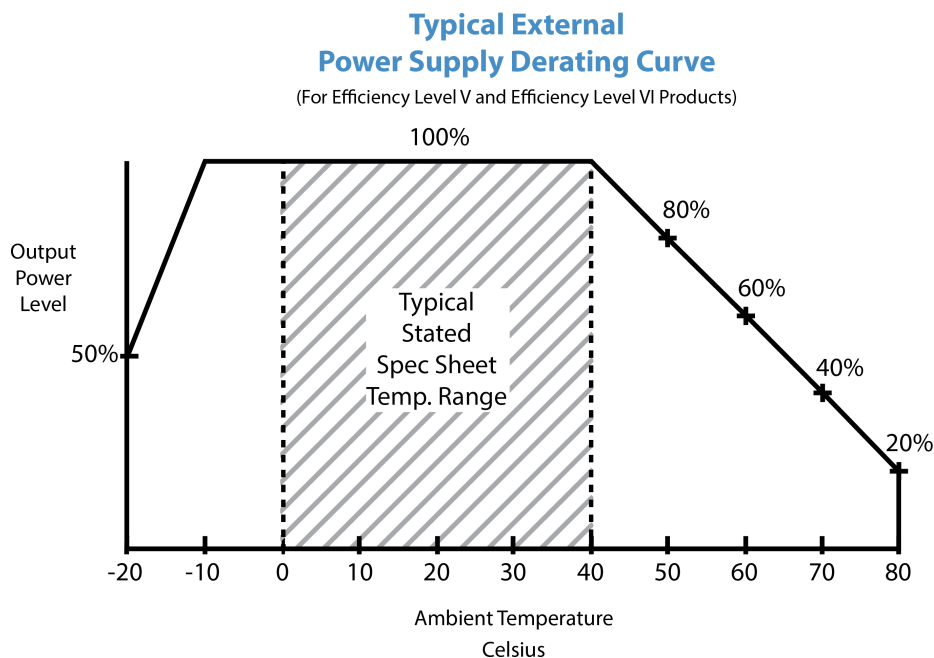
1. Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Size: 117.53*53.47*36.6 mm +/- 1.0
3. Markings: Label and/or Pad Printed and/or Molded into Case
4. LED: Standard Green color to indicate power on

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DERATING CURVE



Note:

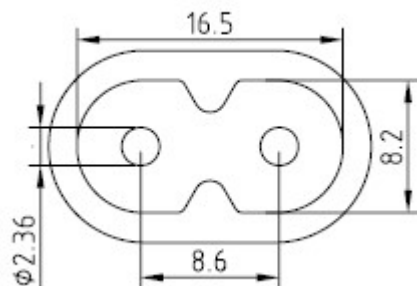
@ 15W UL certified to +70C for GTM91099-3009-4.0 only

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INPUT CONFIGURATION

Description IEC 60320/C8 AC Inlet connector

[Blade Insertion Instructions](#)
[R-Blade Style Instruction Video](#)


Mates with IEC 60320/C8 Plug

This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

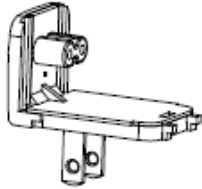
Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

# Part Number	Main Country/Region	Plug	IECEE Type
1 R-NA-2(R)	North America, Japan	Nema 1-15P	Type A
2 R-SAA-2(R)	Australia/New Zealand	AS/NZ 3112	Type I
3 R-UK-2(R)	United Kingdom/Ireland	UK, Hong Kong, Singapore, Gulf States	Type G
4 R-EU-2(R)	Europe	CEE 7/16	Type C
5 R-CN-2(R)	China	GB 2099	Type A
6 461-03030003(R)	N/A	R-DI(R) Desktop Insert for use with a cord	N/A
7 R-KIT-2(R)	prepackaged kit	1,2,3,4 above	N/A
8 R-KIT-2-INTL(R)	prepackaged kit	2,3,4 above	N/A

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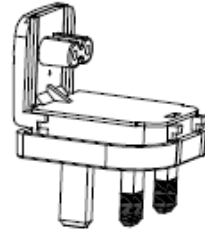
May 9, 2025



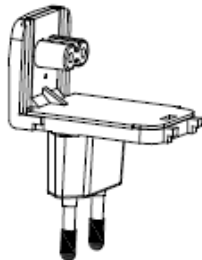
UL 2P

P/N: R-NA-2(R)
NORTH AMERICA
JAPAN


AUS 2P

P/N: R-SAA-2(R)
AUSTRALIA


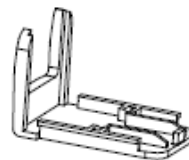
UK 2P

P/N: R-UK-2(R)
UNITED KINGDOM
HONG KONG
SINGAPORE


EU 2P

P/N: R-EU-2(R)
EUROPE
SOUTH AMERICA


CN 2P

P/N: R-CN-2(R)
CHINA


R-DI

P/N: R-DI
DESKTOP INSERT

Standard Cordsets

Below are standard cordsets which are "not included" (unless stated above); these may 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.

Standard International IEC 320/C7 Cordsets

Part Number	Country	Plug	Connector	Length (mm)	Length (feet)
2094112M703(R)	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
5014112M703A(R)	Australian (Type I)	AS 3112	IEC 320/C7	2000	7

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207B4111M8703(R)	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
4533501M8703(R)	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
2074112M703A(R)	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703(R)	South Africa (Type M)	BS 546	IEC 320/C7	1800	6
2084111M8703B(R)	India (Type D)	ISI:1293	IEC 320/C7	1800	6
2714111M8703A(R)	India (Type C)	ISI:1293	IEC 320/C7	1800	6
451J3401M8703(R)	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
2044112M703A(R)	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
4511116F703A(R)	N. American (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
4033401M8703A(R)	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
6104112M703A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7

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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
2MOPP	2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
 R32282 RoHS (Pb)	BSMI Taiwan GTM91099-6024-8.0-T2 (16V only); CNS143361-1 (99) CNS13438 (95) http://www.bsmi.gov.tw/wSite/ct?xItem=4072&ctNode=816&mp=2
No Logo Applicable	IEC 60601-1: 2005 + C1 + C2 + A1
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition 2xMOPP
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011
No Logo Applicable	IEC 61558-1:2005+A1, IEC 61558-2-16:2009+A1
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
No Logo Applicable	CB to 60335-1 5th Edition (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) CB Report/ Certificate IEC 60335-1:2010 Up to 36 volts only
 仅适用于在海陆5000以下地区使用	CCC to GB4943.1-2011 GB9254-2008 GB17625.1-2012

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	CE Certification Class II CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-7 EMI: Complies with EN55011 CLASS B and FCC Part 15 B
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2014 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with Additional EN610006-1:2007, EN610006-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - M on the label or Molded in the case
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Require [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Require [CSA C22.2#62368-1:2014 Ed.2]
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-2014.pdf
No Logo	Colombia GTM91099-T2 No logo
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
	cRUus UL Recognized Component E172861 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
	DoC (Brazil) to IEC 60950-1_2005 + A1_2009 +A2_2013 (5 - 48 Volts)
	

PROPRIETARY INFORMATION

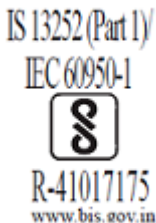
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	Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
No Logo	EC-Conformity Declaration: http://www.globtek.com/html/iso_certificates/EC-DECLARATION.g REACH 144 SVHC: http://www.globtek.com/html/iso_certificates/Reach144.pdf
	Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Perform (AAMI ES60601-1:2005+A1) Medical Electrical Equipment – Part 1: General Requirement for Basic safety Essential Perform (CSA C22 2#60601-1:2014 Ed.3)
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27 Ed: 2 Rev: 2014/10/14)
	FCC PART 15B Report STR14078169E-3
IEC/EN60335-1	IEC/EN60335-1 Up to 36 volts
IEC/EN60601-1	IEC/EN60601-1
	INDIA BIS (GTM91099-T2) 5V, 12V, 13.8V, 15V, 18V, 19V, 20V, 24V, 36V, 48V only
	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 15o from the vertical Optional

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  DC-E-G71-001.7 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-001.7 to IEC 60950 + A1:2009
  DC-E-G71-010.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate GTM96600 GTM91099 T2(A) R2 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 guidelines o 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 guidelines o regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[15 less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 적류전원장치 AC/DC ADAPTER KTC HU10499-18034A R-REM-GS2-91099-60W16VT2 전기용품안전관리법에 의한 표시 모델명:GTM91099-6024-T2 Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-6221-6100	Korea HU10499-18034A GTM91099-6024-8.0-T2 (16V, 18V, 19V, 20V, 24V Only)

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 직류전원장치 AC/DC ADAPTER KTC HU10499-21045A R-R-GSZ-0009 전기용품안전관리법에 의한 표시 모델명:GTM91099-6015-T2 Mfr Name: GLOBTEK (SUZHOU) CO.,LTD A/S Center:10-8221-8100	Korea HU10499-21045A GTM91099-6015-T2(A) (9.1V,10V,11V,12V, 13V,13.8V,14V,15V)
EFFICIENCY LEVEL 	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
No Logo	Malaysia ST Release Letter GTM91099T2 -T3A IEC62368-1:2018 No logo
	NOM (Mexico) to NOM-001-SCFI-1993 GTM91099-6024-8.0-T2 for 16V only
No Logo	Peru MTC GTM91099-T2 No logo
 SAA-512684-EA	RCM N136; 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 (RO http://www.ce-mark.com/Rohs%20final.pdf
 Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
 RoHS000158101/07 RoHS Symbol YEAR Serial NO. WEEK Class NO for production	Serial Number Information
 SAFETY MARK 140940-11	Singapore GTM91099-6024-8.0-T2 ICE 60950-1:2005 + 2009 +A2:2013 (16V only)

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No Logo	12
No Logo	South Africa approval to SANS IEC 60950
No Logo	12
	Transformer Symbol IEC 61558-1 SMPS Short-Circuit –Proof Safety Isolating Transformer
	Transformer Symbol IEC 61558-1 SMPS Switch Mode Power supply
	UKCA Certification
	Ukraine UKRSeapro (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/index_en) Mark is on the label or Molded in the case