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Model:GTM96605-G2-R3A

May 20, 2024

Adaptive USB PD Power Supply/ Quick Charge Charger for Medical Grade and ITE/ICT applications for USB PD 2.0 and USB PD 3.0 Applications R3A

Information

Model Number	GTM96605-G2-R3A
Description	Communication formats supported: USB Power Delivery (PD) 2.0/3.0, Quick Charge™ 2.0/3.0, Quick Charge™ 4.0/4.0+ with up to 7 voltages and VDM options available. Fully globally certified for Medical 60601-1, ICT 62368
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM96605-GEN2/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O0c00000PIC18EAH
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O0c00000PIC18EAH
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:GTM96605-G2-R3A

May 20, 2024

MODEL PARAMETERS	
WODEL FARAIVIETERS	
Туре	Wall Plug-in+Desktop Combination
Technology	USB Adaptive Power Supply AC Adaptor
Category	USB Power Delivery (PD) Source, ICT/ITE/Medical
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	3.6-20
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	
Size (mm)	117.53*53.47*36.6

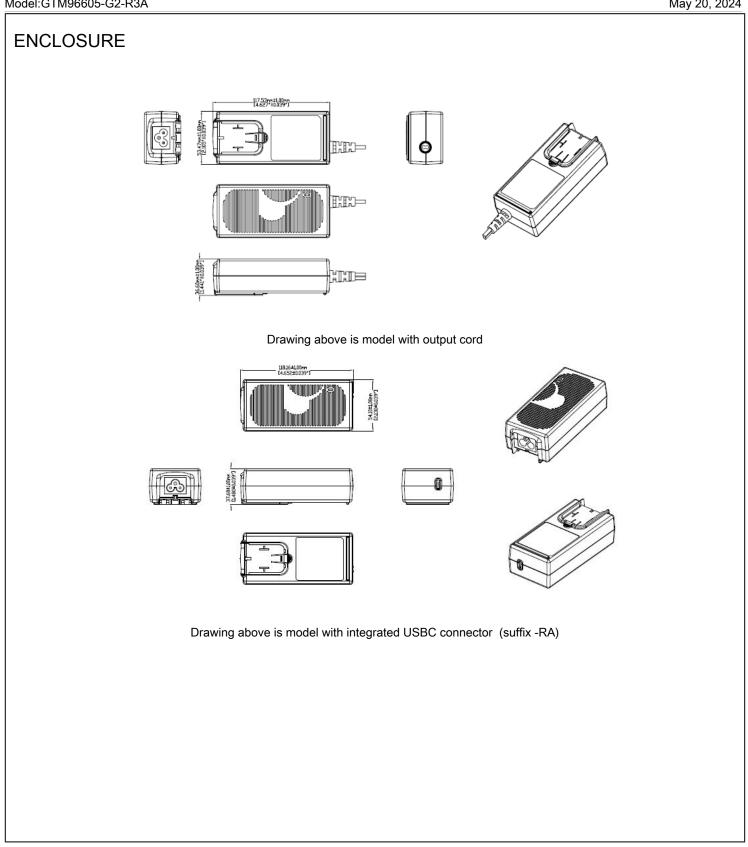


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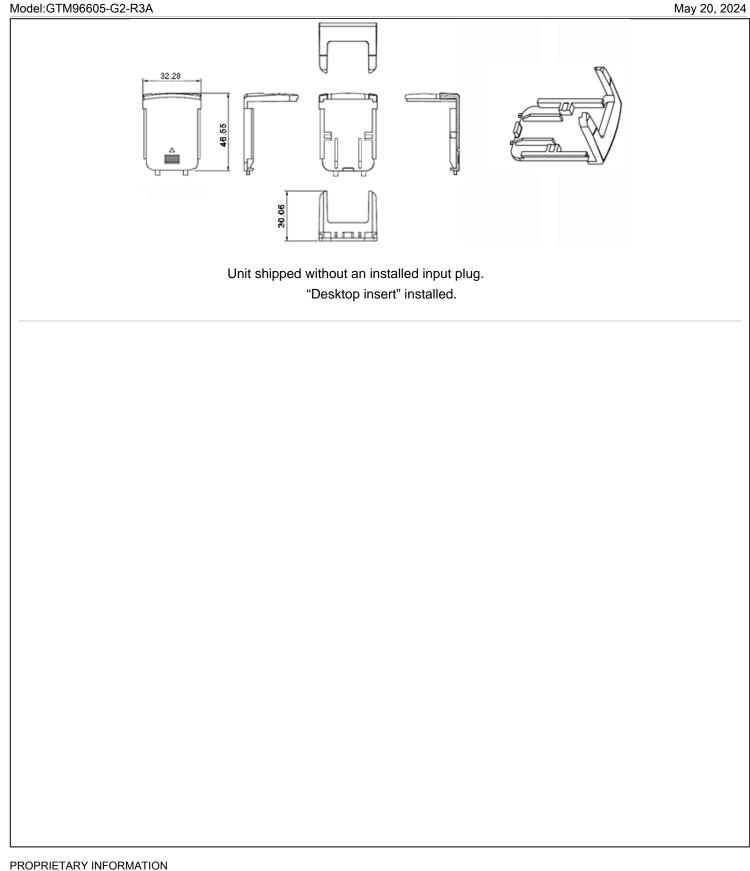


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Model:GTM96605-G2-R3A May 20, 2024 **RATING TABLE** Model Number Voltage Amps(A) Watts(W) RFQ GTM96605-G2A1-R3A V RFQ V GTM96605-G2A1-R3A-RA RFQ V RFQ GTM96605-G2A1-R3A(PPS) V GTM96605-G2A1-R3A-RA(PPS) RFQ



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SPECIFICATIONS USB Power Delivery Capabilities

Protocols supported:	USB Power Delivery (PD) 2.0/3.0 + PPS
Default Output State:	5V/2.0A
Advertised Power Data Objects (PDOs):	Standard option: 5V, 5.8V, 9V, 12V, 15V, 15.1V [†] , 20V PPS option: 5V, 9V, 15V, 20V, PPS (3.6-11V), PPS (3.6-16V), PPS (3.6-20V)
	Refer to the 'Rating Table' for output current capability for each USB PD PDO.
Output Current:	Models with -RA suffix have a female USB Type-C connector for use with a detachable USB Type-C cable. If no E-marked cable is detected, the maximum current is limited to 3A.
	Models without a suffix have a captive 5A rated cable and can always deliver the full current per the 'Rating Table'.
Note 1:	Custom fixed PDOs available upon request. PDO1 must be 5V. PDO2 through PDO7 may be set to any custom voltage from 3.6V to 20V, with a step size of 100mV.
Note 2:	In critical applications, the use of a non-authorized USB PD power adapter may pose a substantial risk. The power adapter's identity may be checked and validated prior to PD contract negotiation by using USB PD Vendor Defined Messages (VDMs). Please see our article <u>Product Security and Risk Mitigation for USB Power Delivery (PD) Based Systems</u> for additional information.

Qualcomm Quick Charge™ Capabilities

Protocols supported:	Quick Charge™ 2.0/3.0
Default Output State:	5V/2.0A
	D+ D- Output
	0.6V GND 5.0V/4.6A
HVDCP Class B Profiles:	3.3V 0.6V 9.0V/4.4A
HVDCP Class B Profiles:	0.6V 0.6V 12V/4.0A
	3.3V 3.3V 20V/3.0A
	0.6V 3.3V Continuous mode. Adjust from 3.6V to 20V in 200mV steps.
Output Current:	Models with -RA suffix are limited to 3A, as Quick Charge does not support USB PD E-marked cables.
	Models without a suffix can deliver full rated Quick Charge current.
Input	
	Specified: 90-264VAC, Nameplate: 100-240VAC

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Input Voltage:	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 @ 115VAC, < 60A @ 230VAC (cold start)
Efficiency:	DoE Efficiency Level VI and CoC Tier 2 compliant (tested according to DoE 10 CFR 430, Subpart B, Appendix Z)
Output	
Turn-on Delay:	< 1 second (full load, 115VAC)
Output Regulation	± 4% max. (measured at the end of output cord)
Line Regulation:	± 0.5% typ. (measured at the end of output cord)
Ripple:	100mV max. (using a 47μF low-ESR electrolytic cap + 0.1μF ceramic cap, measure 20MHz BW, at the output connector)
Transient Response:	5% max. deviation, 1ms max. recovery time (with 40 to 70% load step),
Hold-up Time:	8ms typ. (full load, nominal line voltage)
Power Indicator:	Green LED
	MOV transient suppressor, input line fusing
	Level 1: 110-130%, Auto-recovery, adaptive to selected PDO/QC profile
Over-Voltage Protection:	Level 2: 25V (max), Latched off, cycle AC to reset
Over-Voltage Protection: Over-Current Protection:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile
Input Protection: Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection:	Level 2: 25V (max), Latched off, cycle AC to reset
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF: Operating Temperature:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load)
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF: Operating Temperature: Storage Temperature:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load) -10°C to 50°C (80% load)
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF: Operating Temperature: Storage Temperature: Humidity: Altitude	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load) -10°C to 50°C (80% load) -30°C to 80°C
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF: Operating Temperature: Storage Temperature: Humidity: Altitude	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load) -10°C to 50°C (80% load) -30°C to 80°C 0% to 95% relative humidity, non-condensing
Over-Voltage Protection: Over-Current Protection: Short-Circuit Protection: Over-Temperature Protection: Environmental MTBF: Operating Temperature: Storage Temperature: Humidity: Altitude Cooling:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load) -10°C to 50°C (80% load) -30°C to 80°C 0% to 95% relative humidity, non-condensing 5000m
Over-Voltage Protection: Over-Current Protection:	Level 2: 25V (max), Latched off, cycle AC to reset 110-140%, Auto-recovery, adaptive to selected PDO/QC profile Auto-recovery Auto-recovery 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) -10°C to 40°C (full load) -10°C to 50°C (80% load) -30°C to 80°C 0% to 95% relative humidity, non-condensing 5000m Convection

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lodel:GTM96605-G2-R3A	May 20, 202
Touch Current:	3-conductor models: 20μA max.
	2-conductor models: 65µA max.
Earth Leakage Current	300µA max. NC/SFC (N/A for 2-conductor input models)
Means of Protection:	2 x MOPP
Output Isolation Options:	-T2/R2 suffix: Class II 2-conductor (C8/C18 inlet or interchangeable blades) -T3/R3 suffix: Class II, with functional earth (FE) (C6/C14 inlet or interchangeable blades) Class I, earth wire connected directly to output negative (C6/C14 inlet or interchangeable blades)
Note 3:	Review output isolation options with our article: PSU Isolation and Identify
EMC	
	Medical: EN 60601-1-2 (4e)
Applicable Standards:	Emissions: EN55032, EN61000-6-3, EN61000-6-4
	Immunity: EN55024, EN61000-6-1 (4e), EN61000-6-2 (4e)
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load)
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load)

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Harmonic Current Voltage Distortion:

Electrostatic Discharge (ESD) Immunity:

Power Frequency Magnetic Field Immunity:

Voltage Fluctuations/Flicker:

Radiated RF Immunity:

EFT/Burst Immunity:

Line Surge Immunity:

Conducted RF Immunity:

Voltage Dip Immunity:

Housing:	High impact plastic, 94V0 polycarbonate, non-vented Desktop T2/T3: C6, C8, C14, or C18 IEC inlet Hybrid (desktop or wall plug-in): Class I or Class II input
	No suffix: Captive 1.5m shielded USB Type-C cable -RA suffix: Female USB Type-C connector integrated into housing
Markings:	Adhesive backed label or laser engraving

EN61000-4-8, 30A/m, Criterion A

EN61000-4-11, Criterion B

EN61000-3-2, Class A

EN61000-3-3

Criterion B

Prevention of Unauthorized Use

In critical applications, the use of a non-authorized USB PD power adapter may pose a substantial risk to system safety or performance.

The power adapter's identity may be checked and validated prior to PD contract

EN61000-4-2, 10KV contact discharge, 18KV air discharge, Criterion A

EN61000-4-4, 2KV/100KHz., Criterion A; 4KV/100KHz, Criterion B

EN61000-4-6, 3VRMS, 80% 1KHz AM, Criterion A

EN61000-4-3, 10V/m @ 80-1000MHz, 3V/m @ 1-2.7GHz, 80% 1KHz AM, Criterion A

EN61000-4-5, 2KV differential, 2KV common-mode, Criterion A; 4KV common-mode,

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Model:GTM96605-G2-R3A	May 20, 2024
USB Power Delivery:	negotiation by use of USB PD Vendor Defined Messages (VDMs). The power adapter will respond to a USB PD "Discover Identity" VDM with 0x4754 in the "ProductID" field.
	Additionally, non-standard 5.8V and 15.1V PDOs are included. Host systems may be designed to reject a power adapter which does not contain one of these PDOs.
Note 4:	These measures do not guarantee a secure implementation, and are only suggested as a method of risk mitigation.
Note 5:	Please see our article <u>Product Security and Risk Mitigation for USB Power Delivery (PD)</u> <u>Based Systems</u> for additional information.

Special Options

Non-standard - Contact GlobTek

- 1. Custom housing and output cord colors
- 2. Custom fixed output cord length, for applicable models (1m, 2m, 3m lengths, etc.)
- 3. Custom markings and marking methods
- 4. Custom USB PD PDOs: Output voltages selectable between 5V and 20V, in 100mV increments
- 5. USB Micro-B connector for Quick Charge™-only applications
- 6. Quick Charge[™] 4.0/4.0+ support

† 15.1V PDO is standard on units with date codes after Sept-10-2019.

++ VDM functionality is standard on units with date codes after Sept-10-2019.

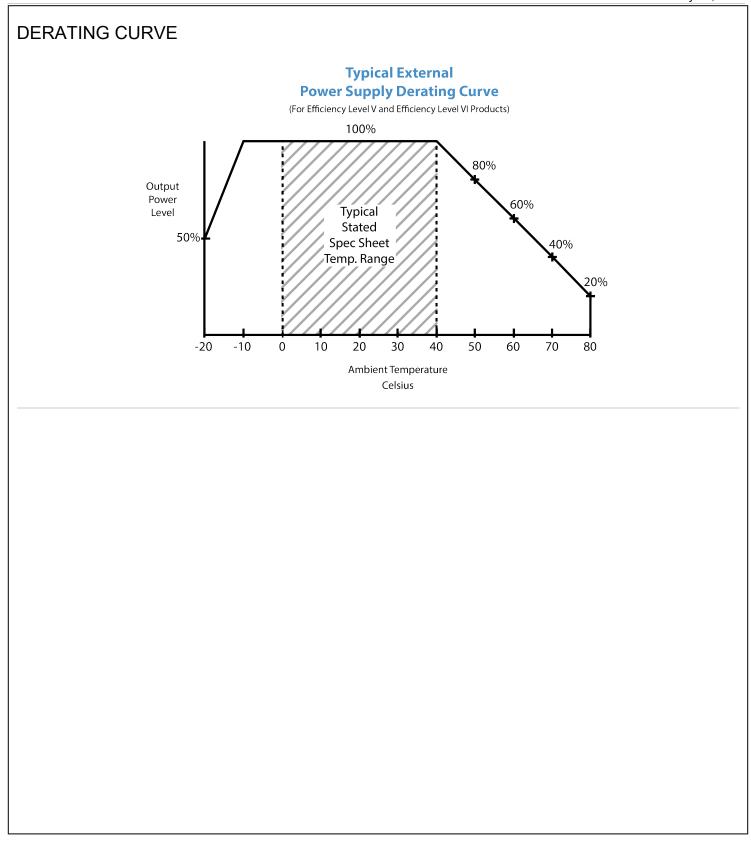


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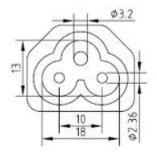
May 20, 2024

INPUT CONFIGURATION

Description

IEC 60320/C6 AC Inlet Connector, Class I, Earth Ground (aka "Mickey Mouse")

Blade Insertion Instructions R-Blade Style Instruction Video



Mates with IEC 60320/C5 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

1. Class I model NEMA 5-15P (Type B), Class I AC power plug with 2 blades & ground pin, R-NA-3(R)

2. Australian AS 3112 (Type I) configuration: SAA 3 pins Class I, R-SAA-3(R)

3. UK BS 1363 (Type G) configuration: UK 3 pins (Ground) Class I, R-UK-3(R)

4. European CEE 7/7 (Type E and F) configuration: European plug 2 PINS + ground, Class I, R-EU-3(R)

5. Desktop Insert

Kits

05. R-KIT-3(R) 1,2,3,4 above 06. R-KIT-3-INTL(R): 2,3,4 above



UL 3P P/N: R-NA-3(R) NORTH AMERICA



UK 3P P/N: R-UK-3(R) UNITED KINGDOM HONG KONG SINGAPORE



AUS 3P P/N: R-SAA-3(R) AUSTRALIA EU 3P P/N: R-EU-3(R) EUROPE SOUTH AMERICA

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or package 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/C5 Cordsets

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Part Number / Link	Country	Plug	Connector	Length (mm)	Length (ft)
3021066F712(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C5	1880	6
1191068F0712(R)	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C5	2459	8
	Argentina (Type I)	IRAM 2073	IEC320/C5	2050	6.7
<u>2064262M0712(R)</u>	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C5	2000	6.6
<u>204B4262M0712(R)</u>	Brazil (Type N)	BRAZIL	IEC 320/C5	2000	6.6
<u>6023592M5712(R)</u>	China (Type I)	CCC GR2099	IEC 320/C5	2500	8
<u>23144262M0712(R)</u>	Europe (Type E)	CEE 7/7	IEC 320/C5	2050	6.6
<u>2313K3432M0712(R)</u>	Korea (Type F)	KS C 8305	IEC 320/C5	2000	6.6
205IN4262M0712(R)	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C5	2000	6.6
<u>377C4262M0712(R)</u>	Israel (Type H)	ISL	IEC320/C5	2050	6.7
23024262M0712(R)	Italy (Type L)	CEI 23-16/VII	IEC 320/C5	2000	6.6
3003316F0712(R)	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C5	1830	6
<u>3021066F0712ULPSE(R)</u>	Japan / USA (Type B)	JIS 8303 / 3 PINS + NEMA 5-15P	IEC 320/C5	1830	6
2054262M0712(R)	S. Africa (Type D)	South Africa SABS164-1 (6A type plug)	IEC320/C5	2050	6.7
2084262M0712(R)	S.Africa (Type M)	South Africa SABS164-1 (16A type plug)	IEC 320/C5	2000	6.6
23214262M0712(R)	Switzerland (Type J)	SEV 1011 (EL 203)	IEC 320/C5	2000	6.6
<u>3003316F0712(R)</u>	Taiwan (Type B)	BSMI	IEC 320/C5	2000	6.6
<u>6104262M0712(R)</u>	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C5	2000	6.6



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Model:GTM96605-G2-R3A May 20, 2024 **OUTPUT CONFIGURATION** Common output connector options: ML2 Type (Molex L Type (Coaxial C Type (Coaxial LL Type (5.5x2.5mm CL Type (5.5x2.1mm K Type (Coaxial housing 43025-0200) 5.5x2.5mm plug) 5.5x2.1mm plug) Locking 760k type) Locking S761k type) 3.5x1.3mm plug) MSB Type (Micro USBC Type (USB YL3 Type EJ1/2/3/4/5 (EIAJ Inquire for custom YL4 Type (KPPX-4P) USB) Type C) (KPPX-3P) RC-5320A type design connectors) For a comprehensive list of options, click here Contact GlobTek for your specific requirements or custom solutions.



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_ogo	Description
No Logo Applicable	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:2006 3.1rd Edition 2xMOPP (6W max)
No Logo	CB Report IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 (GTM96605-G2-XX)
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
((() 5000	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
CE	CE Certification
Intertek	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]
Intertek	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27, Ed: 2 Rev: 2014/10/14) Information Technology Equipment Safety Part 1: General Requirements (CSA C22.2 No. 60950-1 Issued: 2007/03/27 Ed: 2 (R2012) Amd.
Exception Theretek and rest	AAMI ES60601-1 Issued: 2012/08/20 Medical Electrical Equipment - Part 1: CAN/CSA-C22.2 No.60601-1:14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1: IEC 60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip Part 1-11:
3 D	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.p

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Conforms to AAMI STD. ES60601-1,IEC 60601-1-11 Certified to CAN/CSA STD.C22.2 NO.60601-1 Conforms to UL STD. 62368-1
Certified to CAN/CSA STD.C22.2 NO.60601-1
Conforme to LIL STD 62268 1
Conforme to LIL STD 62368 1
Conforme to LIL STD 62368 1
Certified to CSA STD C22.2 NO.62368-1
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>
Indoor Use Only - Mark is on the label or Molded in the case
JAPAN TUV R-PSE, Cert. No. JD50473430 , to J62368-1(H30) , J55032(H29),J3000(H25)[DC15? 30V]. 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)
Limited Power Source 60950
Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
Australian EMC
Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
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

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Intertek	S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (<u>http://www.intertek.com/marks/s/</u>)	
UK CA	UKCA Certification	
10276	Ukraine UKRSepro (Document: <u>www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</u>)	
	Japan: Voluntary Control Council for Interference (VCCI)	
X	WEEE: Complies with EU 2012/19/EU (<u>http://ec.europa.eu/environment/waste/weee/inde</u> Mark is on the label or Molded in the case	ex_en.htm)