Model:GTM961005P-100PD-USBCP–T2 May 9, 2025

GTM961005P-100PD-USBCP–T2

Information

Model Number	GTM961005P-100PD-USBCP–T2
Description	GTM961005P-100PD-USBCP–T2, USB Adaptive Power Source ICT/ITE/Medical Power supply, Desktop/External, USB Adaptive Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8"), Output Rating: 100 Watts, Power rating with convection cooling (W) , 3.3-21V in 0.1V increments, Approvals: cMETus 62368; CE; China RoHS; Morocco; EAC; Ukraine; WEEE; VCCI; RoHS; Level VI; PSE; UKCA; Double Insulation; CB 60335; CB 61158; cMETus 60601-1;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM961005P/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000NHUPLEA5
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000NHUPLEA5
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	USB Adaptive Power Supply AC Adaptor
Category	USB Adaptive Power Source ICT/ITE/Medical Power supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	1.5A
Wattage (W)	100.0
Vout Range (V)	3.3-21
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP41
Size (mm)	149.3 x 62.8 x 34.0 +/-1.0

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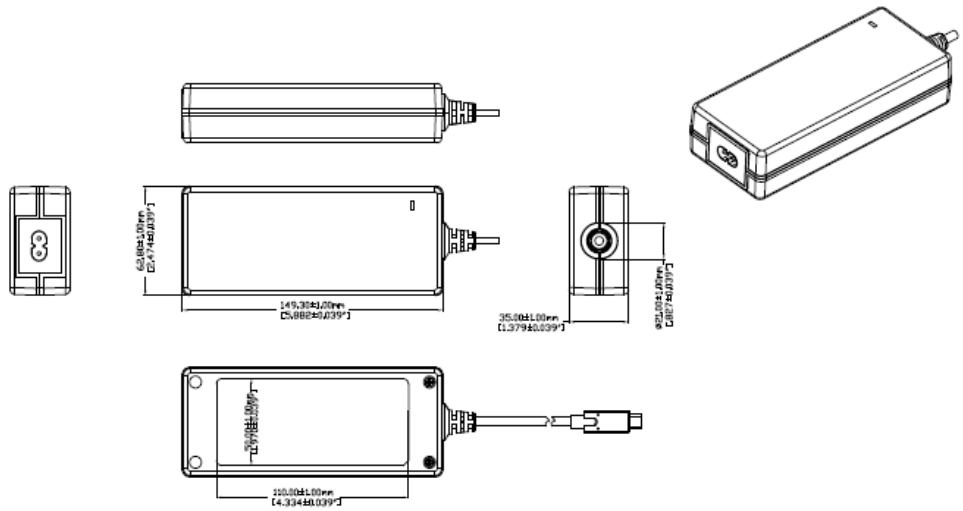
ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM961005P-100PD–USBCP-T2	V			RFQ

SPECIFICATIONS

USB Power Delivery Capabilities

Protocols supported:	USB Power Delivery (PD) 2.0/3.0 + PPS
Advertised Power Data Objects (PDOs):	5V, 9V, 12V, 15V, 15.1V, 20V, PPS (3.3 - 21V)
Note 1:	Custom fixed PDOs available upon request. PDO1 must be 5V. PDO2 through PDO7 may be set to any custom voltage from 3.3V to 21V, with a step size of 100mV.
Note 2:	In certain critical applications, the use of a non-authorized USB PD power adapter may pose a 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 Product Security and Risk Mitigation for USB Power Delivery (PD) Based Systems for additional information. Contact GlobTek for details.

Input

Input Voltage:	85-264VAC, Nameplate: 100-240VAC
Input Frequency:	47-63Hz, Nameplate: 50-60Hz
No Load Input Power:	< 150mW @ 230VAC (EU CoC Tier 2 compliant)
Inrush Current:	60A @ 115VAC, 120A @ 230VAC typ. (at peak of AC line, cold start)
Efficiency:	DoE Efficiency Level VI and CoC Tier 2 compliant (tested according to DoE 10 CFR Part 430, Subpart B, Appendix Z)

Output

Turn-on Delay:	< 1 second @ 115VAC, 5V @ 3A load
Output Regulation:	± 4% max. (measured at the end of a 1m long output cord)
Line Regulation:	± 0.5% typ. (measured at the end of a 1m long output cord)
Ripple:	75mV max. (0 - 100% load, using a 47µF low-ESR electrolytic cap + 0.1µF ceramic cap, measured @ 20MHz BW, at the output connector)
Transient Response:	5% ΔV max. ; 1ms recovery time max. (for 25% - 75% step, Vout > 9V) 10% ΔV max ; 1ms recovery time max. (for 25% - 75% step, Vout ≤ 9V))
Hold-up Time:	20ms typ. (100VAC, 100% load) 25ms min. (100VAC , 75% load)
Power Indicator:	Green LED
Recommended Output Cable (-USBCJ only):	For compliance with international efficiency regulations, use the below GlobTek USB Type-C output cables with low-voltage drop construction: Black (1m): USBCE5APL1M0USBCB(R) Black (2m): USBCE5APL2M0USBCB(R) White (1m): USBCE5APL1M0USBCW(R) White (2m): USBCE5APL2M0USBCW(R)

Protections

Input Protection:	MOV transient suppressor, input line fusing
Over-Voltage Protection:	Level 1: 110-130%, Auto-recovery, adaptive to selected PDO Level 2: 24-28V, Latched off, cycle AC to reset
Over-Current Protection (PD):	110-130%, Auto-recovery, adaptive to selected PDO
Over-Current Protection (vSafe5V):	3.3 - 3.9A Note: At startup and/or before a USB PD contract is established, the output is rated 5V @ 3A, with over-current protection set as above.
Short-Circuit Protection:	Auto-recovery
Over-Temperature Protection:	Level 1: Auto-recovery, temperature readable via USB PD 3.0 Extended Messages Level 2: 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:	-40°C to 80°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude	5000m
Cooling:	Natural convection

Safety

Certifications:	IEC60601-1 IEC60601-1-11 IEC62368-1 IEC61558-2-16 IEC60335-1
Input Configuration Options:	-T2 suffix: Two-conductor input, floating output (F1) -T3 suffix: Three-conductor input Floating output with functional earth (F2) ~or~ Earthed output (E1) See "Input Configuration" within the product specification for details.
Dielectric Withstand Voltage:	4000VAC or 5656VDC, primary-to-secondary 1768VAC or 2500VDC, primary-to-earth (three-conductor input models only) 1500VAC or 2121VDC, secondary-to-earth (F2 configuration only)
Means of Protection:	2 x MOPP, primary-to-secondary 1 x MOPP, primary-to-earth (three-conductor input models only) 1 x MOPP, secondary-to-earth (F2 configuration only)
	Two-conductor input, floating output (F1)

Output Touch Current:	NC: 100µA max. SFC: 150µA max. Three-conductor input, floating output with functional earth (F2) NC: 10µA max. SFC: 100µA max. Three-conductor input, earthed output (E1) NC: 5µA max. SFC: 100µA max. Tested per IEC60601-1
Earth Leakage Current:	300µA max. NC & SFC (N/A for 2-conductor input models) Tested per IEC60601-1
Earth Continuity:	< 0.1Ω between IEC inlet earth pin and internal PCB termination point
Note 3:	Review input configuration options here: PSU Isolation and Identify

EMC

Certifications:	IEC60601-1-2 EN55032 EN55024
Conducted Emissions:	EN55032, Class B (with resistive load)
Radiated Emissions:	EN55032, Class B (with resistive load)
Harmonic Current Voltage Distortion:	IEC61000-3-2, Class A
Voltage Fluctuations/Flicker:	IEC61000-3-3
Electrostatic Discharge (ESD) Immunity:	IEC61000-4-2, 10KV contact discharge, 18KV air discharge, Criterion A
Radiated RF Immunity:	IEC61000-4-3, 10V/m @ 80-1000MHz, 3V/m @ 1-2.7GHz, 80% 1KHz AM, Criterion A
EFT/Burst Immunity:	IEC61000-4-4, 4KV/100KHz., Criterion A
Line Surge Immunity:	IEC61000-4-5, 2KV differential, 4KV common-mode, Criterion A
Conducted RF Immunity:	IEC61000-4-6, 10VRMS, 80% 1KHz AM, Criterion A
Voltage Dip Immunity:	IEC61000-4-11, Criterion B/C

Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Markings:	Adhesive backed label or laser engraving

Prevention of Unauthorized Use

	The power adapter's identity may be checked and validated prior to PD contract negotiation by use of USB PD Vendor Defined Messages (VDMs). The power adapter will

USB Power Delivery:	respond to a USB PD "Discover Identity" VDM with 0x4754 in the "ProductID" field. Additionally, a non-standard 15.1V PDO is included. Host systems may be designed to reject a power adapter which does not contain a 15.1V PDO. Contact GlobTek for customization.
Note 4:	These measures do not ensure a secure implementation, and are only suggested as a method of risk mitigation.
Note 5:	Please see our article Product Security and Risk Mitigation for USB Power Delivery (PD) Based Systems for additional information.

Special Options

Non-standard - Contact GlobTek

1. Custom housing and output cord colors
2. Custom fixed output cord length (1m, 2m, 3m lengths)
3. Custom markings and marking methods
4. Custom USB PD PDOs: Output voltages selectable between 3.3V and 21V, in 100mV increments

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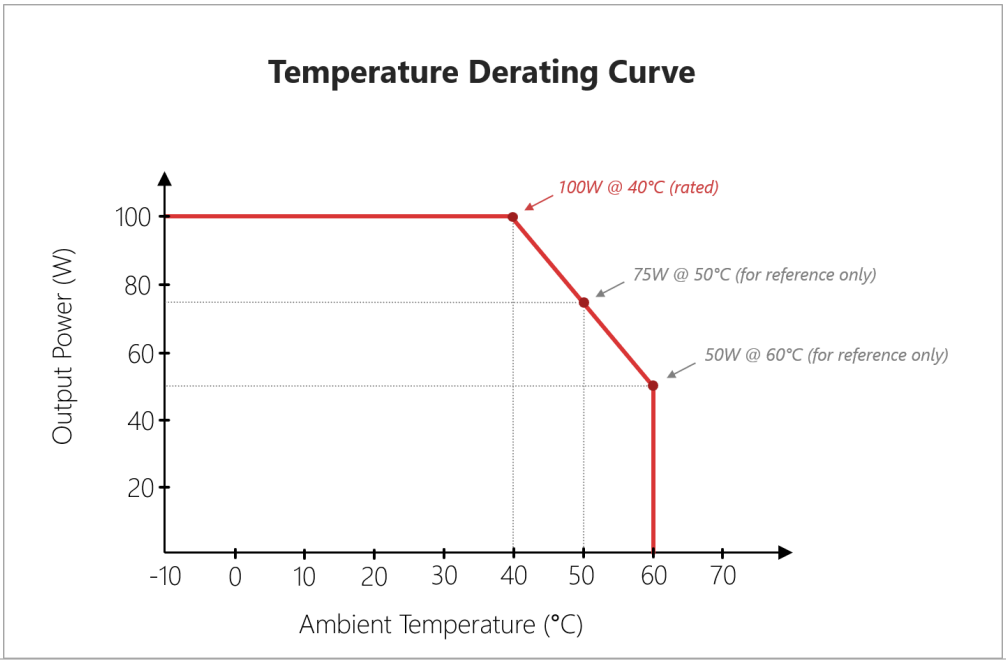
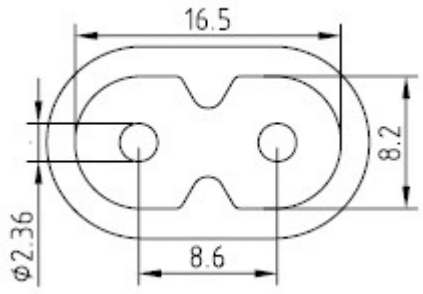
DERATING CURVE



INPUT CONFIGURATION

Description IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8")



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

Part Number	Type	Standard	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
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
2074112M703AEUSA(R)	European/South Africa Combo(Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703B(R)	India (Type D)	IS 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)	North America (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
2084111M8703(R)	South Africa (Type M)	BS 546	IEC320/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

451G1116F703A(R)	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the United Arab Emirates (UAE)(Type A)	Nema 1-15P	IEC320/C7	1830	6
6303742M5703(R)	Thailand (Type C)	TIS 166-2549	IEC320/C7	2500	8

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.

Approvals

Logo	Description
No Logo Applicable	CB for IEC 60335-1:2010 (Fifth Edition) incl. C
No Logo Applicable	IEC 61558-1:2005+A1, IEC 61558-2-16:2009+
CE	CE Certification
30	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-0
Approved MET Mark: RECOGNIZED MET C US E115461 Comply with ANSI AAMI ES 60601-1 IEC 60601-1-6 ANS AAMI HA 60601-1-11 CAN/CSA-C22.2 NO. 60601-1 CAN/CSA-C22.2 NO. 60601-1-6 CAN/CSA-C22.2 NO. 60601-1-11	Medical Equipment, ES60601-1:2005/AMD1:2
Approved MET Mark: NRTL LISTED MET C US Comply with UL 62368-1 CSA C22.2 No. 62368-1 E115461	Audio/Video, Information And Communication [UL 62368-1:2021 Ed.3] Audio/Video, Information And Communication [CSA C22.2#62368-1:2021 Ed.3]

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EAC	Declaration ДС № ЕАЭС N RU Д-US.КА01.В. Kazakhstan http://www.globtek.com/redirect/?
GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, t less]. Please reference the following website f https://www.globtek.com/r2/Szj4Vb
EFFICIENCY LEVEL VI	Efficiency: complies to section 301 of Energy I Energy Star tier 2 (North America), ECP tier 2 (Europe)
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDc
RoHS	Specifications of directive 2011/65/EU Annex ' http://www.ce-mark.com/Rohs%20final.pdf
UK CA	UKCA Certification
10276	Ukraine UKRSepro (Document: www.globtek.c
VCI	Japan: Voluntary Control Council for Interferer
	WEEE: Complies with EU 2012/19/EU (http://e Mark is on the label or Molded in the case