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Model:GTM961005P-100PD-USBCP-T2

GTM961005P-100PD-U	SBCP-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;
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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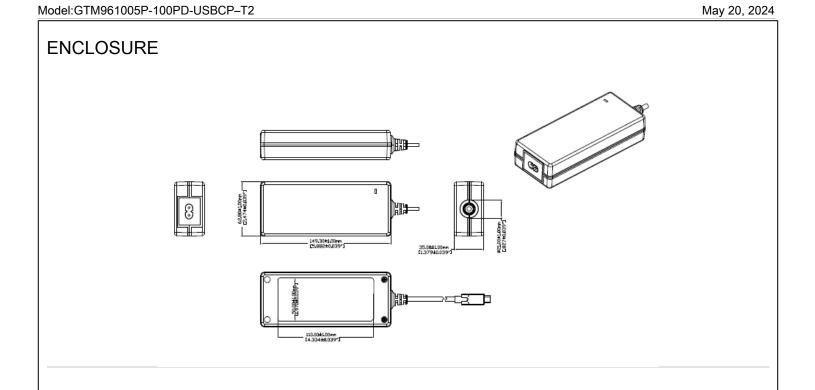
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MODEL PARAMETERS	
Туре	Desktop/External
Technology	USB Adaptive Power Supply AC Adaptor
Category	USB Adaptive Power Source ICT/ITE/Medical Power supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	1.5A
Wattage (W)	100.0
Vout Range (V)	3.3-21
Efficiency 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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RATING TABLE

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

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SPECIFICATIONS	

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May 20, 2024

USB Power	Delivery	Capabilities
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Protocol 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 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.

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)
i	

Output

Turn-on Delay:	< 1 second @ 115VAC and full 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
	For compliance with international efficiency regulations, use GlobTek USB Type-C output cables with low-voltage drop construction:
Recommended Output Cable (-USI	BCJ only): Black (1m): USBCE5APL1M0USBCB(R) Black (2m): USBCE5APL2M0USBCB(R)

White (1m): USBCE5APL1M0USBCW(R) White (2m): USBCE5APL2M0USBCW(R)





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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:	110-130%, Auto-recovery, adaptive to selected PDO
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:	Convection
RoHS:	Complies with EU 2011/65/EU and China SJ/T 11363-2006
Certifications:	IEC60601-1 IEC60601-1-11 IEC62368-1 IEC61558-2-16 IEC60335-1
	-T2 suffix: Two-conductor input, floating output (F1)
Input Configuration Options:	-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, primary-to-secondary 1500VAC, primary-to-earth (three-conductor input models only) 1500VAC, 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)



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lodel:GTM961005P-100PD-USBCP-T2	May 20, 20
	Three-conductor input, floating output with functional earth (F2)
Output Leakage Current:	NC: 10µA max.
	SFC: 100μA max.
	Three-conductor input, earthed output (E1)
	NC: 5µA max.
	SFC: 100µA max.
Earth Leakage Current:	300µA max. NC & SFC (N/A for 2-conductor input models)
Note 3:	Review input configuration with our article: PSU Isolation and Identify
EMC	
	IEC60601-1-2
Certifications:	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 l	Jse
	In critical applications, the use of a non-authorized USB PD power adapter may pose a risk.
USB Power Delivery:	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 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.
Note 4:	These measures do not ensure a secure implementation, and are only suggested as a method of risk mitigation.



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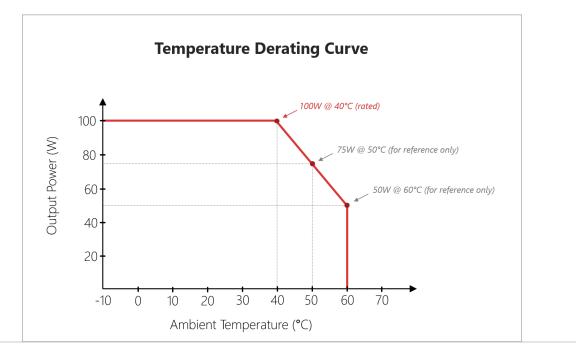
odel:GTM961005P-100PD-USBCF	P–T2 May 20,
lote 5:	Please see our article Product Security and Risk Mitigation for USB Power Delivery (P
	Based Systems for additional information.
pecial Options	
on-standard - Contact GlobTek	
Custom housing and output	t cord colors
2. Custom fixed output cord le	ength (1m, 2m, 3m lengths)
3. Custom markings and mark	
4. Custom USB PD PDOs: Ot	utput voltages selectable between 3.3V and 21V, in 100mV increments



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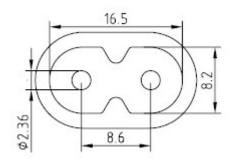
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May 20, 2024

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	Туре	Standard	Connector	_	Length (feet)
2094112M703(R)	Argentina (Type I)		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)	GR 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)		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







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Model:GTM961005P-100PD-USBCP-T2 May 20, 2024 451G1116F703A(R) Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the Nema IEC320/C7 1830 6 1-15P United Arab Emirates (UAE)(Type A) TIS 6303742M5703(R) Thailand (Type C) IEC320/C72500 166-2549



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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)



Locking 760k type)



LL Type (5.5x2.5mm 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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<u>Approvals</u>	
_ogo	Description
No Logo Applicable	CB for IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
No Logo Applicable	IEC 61558-1:2005+A1, IEC 61558-2-16:2009+A1
C€	CE Certification
3	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.
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirement [UL 62368-1:2021 Ed.3] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirement [CSA C22.2#62368-1:2021 Ed.3]
EHE	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
Glob Tek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
EFFICIENCY LEVEL VI	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)

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6	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
RoHS	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
UK	UKCA Certification
10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
V©I	Japan: Voluntary Control Council for Interference (VCCI)
X	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case