

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

G 1 1/190 1200P 120 V V . V - 1	TP(SR with fixed Plug 2 pin)	
Information		
Model Number	GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)	
Description	GTM961200P120VV.V-TP(SR with fixed Plug 2 pin), ICT/ITE Power Supply, 60601-1-4th Ed., Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, See "Blade/Cord Installed" section. Contact GlobTek for customization requests such as Molded country plugs, Molex or TE connectors, or IEC connectors mounted on any type of cable in any customer specified lengths., Output Rating: 120 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: CB 62368; Morocco; PSE; VCCI; PSE; PSE; CE; WEEE; Ukraine; RoHS; Leve VI; China RoHS; cETLus; cETLus 60601-1-11; EAC; S-Mark 62368; UKCA; Conforms to 62368-1;	
Model Picture		
Agency Documents	http://www.globtek.info/certs/GTM961200P/	
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000M6b8TEAR	
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000M6b8TEAR	
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf	
Conflict Minerals Declaration	ict Minerals Declaration https://www.globtek.com/pdf/conflict-minerals.pdf	

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

Delivering leading edge, innovative power solutions for more than 30 years....

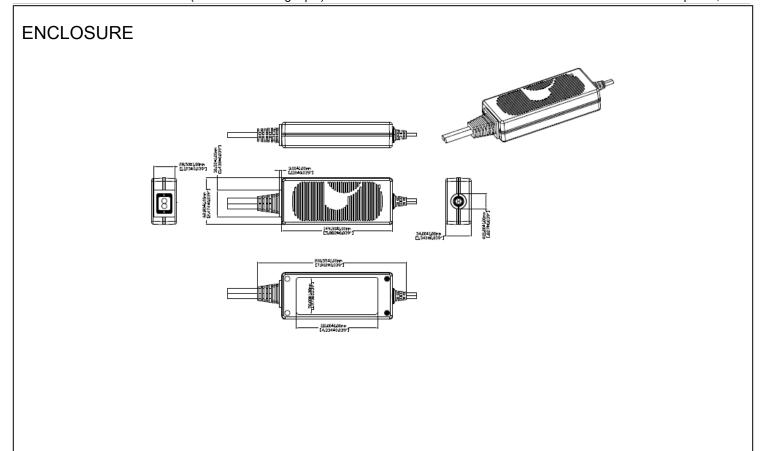
Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

MODEL PARAMETERS	
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	120.0
Vout Range (V)	12-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP42
Size (mm)	149.30*62.80*34.0



Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)







186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

www.globtek.com

http://www.globtek.com/iso-certificates.php

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM961200P12042-TP	42 V	2.85	119.70	RFQ



™ GlobTek Inc.®

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR v	with fixed Plug 2 pin)	April 28, 202	
SPECIFICATIONS			
Input			
Input Voltage:	Specified: 90-264VAC, Nameplate: 100-240VAC 100% rated load current for 90-264VAC 90% rated load current for 85-264VAC 100% rated load current for 90-370VDC		
Input Frequency:	Specified: 47-63Hz, Nameplate: 50-60Hz		
Power Factor:	0.90 min. @ 230VAC, 0.97 min. @ 115VAC		
No Load Input Power:	< 150mW @ 115/230VAC		
Inrush Current:	< 65A @ 115VAC, < 130A @ 230VAC (cold start)		
Efficiency:	DoE Level VI and EU CoC Tier 2 compliant		
Output			
Turn-on Delay:	1 second typ.		
Output Regulation:	± 4% (measured at output connector)		
Line Regulation:	± 0.5% typ. (measured at output connector, full load)		
Ripple:	1% or 200mV, whichever is greater (using a 47μF low-ESR cap + 0.1μF ceramic capacitor, measured @ 20MHz BW, at output connector)		
Startup Overshoot:	5% max.		
Transient Response:	5% max. deviation, 1ms typ. recovery time (with 25% to 50% load step)		
Hold-up Time:	20ms min.		
Power Indicator:	Green LED		
Switching Frequency:	Variable, 25KHz - 125KHz, depending on load		
Protections			
Input Protection:	300VAC MOV transient suppressor, input line fusing		
Over-Current Protection	Current limited to less than < 170W / $V_{out(nom.)}$ and < 13A, auto-restart		
Short-Circuit Protection:	Auto-restart		
Over-Voltage Protection:	110 - 135% (60V max for models rated 45 - 54V), full load condition, la to reset	tched off, cycle AC	
Over-Temperature Protection	Internal ambient NTC temperature sensor, latched off, cycle AC to res	et	
Environmental			
MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3	3)	
Operating Temperature:	-10°C to 40°C (full load)		
Storage Temperature:	-30°C to 80°C		



™ GlobTek Inc.®

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

http://www.globtek.com/iso-certificates.php

Delivering leading edge, innovative power solutions for more than 30 years....

April 28, 2024

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
	Regarding operating temperature
Note 1:	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: 70μA 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.
Primary-to-Secondary Bridging Capacitors:	Two IEC60384-14 Class Y1 capacitors
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
P. C.	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, 18KV 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

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

....

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

April 28, 2024

Enclosure	
Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Size:	149.4 * 62.6 * 33.5mm, ± 1.0mm
AC Input Mechanical Options:	C6, C8, C14, or C18 IEC inlet
Markings:	Label and/or pad printed and/or laser-etched into case

Special Options

Enclosure

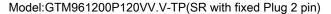
- 1. Reduced leakage current to meet IEC60601-1 Type-CF limits
- 2. Improved EN61000-4-5 line surge immunity (3KV differential, 5KV common-mode)
- 3. Reduced harmonic current levels for LED lighting (EN61000-3-2 Class C) for 85 120W load
- 4. Short term output surge capability for motors or other high peak current loads
- 5. Ruggedized construction with improved shock and vibration resistance
- 6. Compliance to IPC-600, IPC-610, IPC-6012 Class 2 or 3
- 7. Custom cordsets, special cordage and connector types
- 8. Custom housing markings
- 9. Custom housing/cordage colors
- 10. Tightened output voltage tolerance
- 11. Reduced output ripple level
- 12. Reduced output power rating
- 13. Low temperature option, down to -40°C
- 14. Epoxy potted version "P2" or "P3" suffix, with flying wires or custom cables
- 15. "Back EMF" upgrade, for motor loads and other high inductance applications with reverse energy flow requirements
- 16. Improved ingress protection (IP) rating

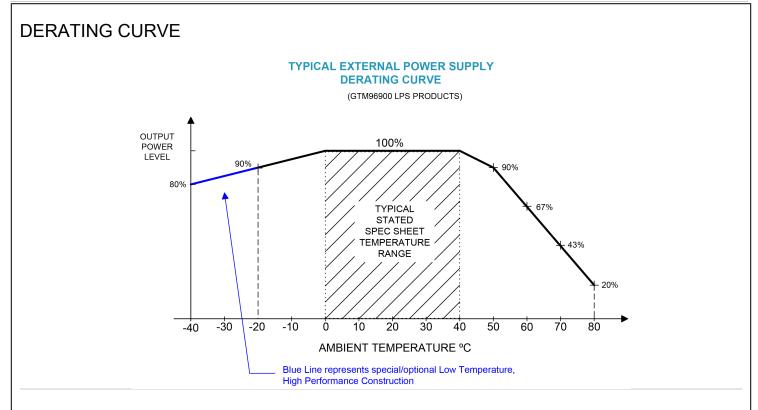
Output Connectors

- 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



Delivering leading edge, innovative power solutions for more than 30 years....





186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

http://www.globtek.com/iso-certificates.php

Delivering leading edge, innovative power solutions for more than 30 years....

odel:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)		April 28, 20
NPUT CONFIGURATION		
escription	See "Blade/Cord Installed" section. Contact GlobTek for customizatio Molded country plugs, Molex or TE connectors, or IEC connectors mo cable in any customer specified lengths.	



Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

April 28, 2024

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.



Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

ogo	Description
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	Test standard: EN 55032: 2012+AC: 2013
C€	EN 61000-3-2:2014
	EN 61000-3-3:2013 EN 55024:2010
	EN 60601-1-2:2015
a	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
Conforms to AAMI	
STD.ES60601-1,IEC 60601-1-11	Conforms to AAMI STD.ES60601-1,IEC 60601-1-11
Certified to CAN/CSA	Certified to CAN/CSA STD.C22.2 NO.60601-1
STD.C22.2 NO.60601-1	
Conforms to UL STD.	
60950-1 Certified to CSA STD	Conforms to UL STD. 60950-1 Certified to CSA STD C22.2 NO.60950-1
C22.2 NO.60950-1	
Conforms to UL STD.	
62368-1 Certified to CSA STD	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1
C22.2 NO.62368-1	Gertified to GSA 31D G22.2 NO.02300-1
гпг	Deployation FO No FACO N DI LE LIC KAOA D 40452 40 Custom Union of Duccio Delawa and
CHL	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
台	Indoor Use Only - Mark is on the label or Molded in the case
	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30), J55032(H29),J3000(H25)[15V or



Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

Model:G1M961200P120VV.V-1P	(SK With fixed Plug 2 pin) April 28, 202-
Glob Tek, Inc.	less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
Glob Tek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30?60V]. 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)
6	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: https://www.globtek.com/r2/Szj4Vb
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
<u>S</u> Intertek	S-Mark Certificate EN 62368-1:2014 + A11 (http://www.intertek.com/marks/s/)
RoHS 9mbol YILAR Series NO. WEEK Class NO for production	Serial Number Information
UK	UKCA Certification





™ GlobTek Inc.®

http://www.globtek.com/iso-certificates.php

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM961200P120VV.V-TP(SR with fixed Plug 2 pin)

10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
VEI	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