GlobTek® Inc.
"your power partner"
Exista POWER SUPPLIES
Allmendstrasse 6 Tel. +41 43 204 01 01 sales@exista.ch
CH-8320 Fehraltorf Fax +41 43 204 01 02 www.exista.ch

GlobTek's GTM961200 series of external tabletop/desktop power supplies offer up to 120W of power while offering compliance to the latest ITE, Medical, Household, and Efficiency requirements, Class II

Information

Model Number	GTM961200P120VV.V-T2
Description	GTM961200P120VV.V-T2, ITE / Medical Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8"), Output Rating: 120 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: CB RCM CCC EAC ETL S-Mark CB CB CB 62368 ETL CB 60335 CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE PSE PSE
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM961200P/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmWwCEAV
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmWwCEAV
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

Model Parameters

Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5 A
Wattage (W)	120.0
Vout Range (V)	12-54
Efficiency Level	VI
Ingress Protection	IP41
Size (mm)	149.30*62.80*34.00

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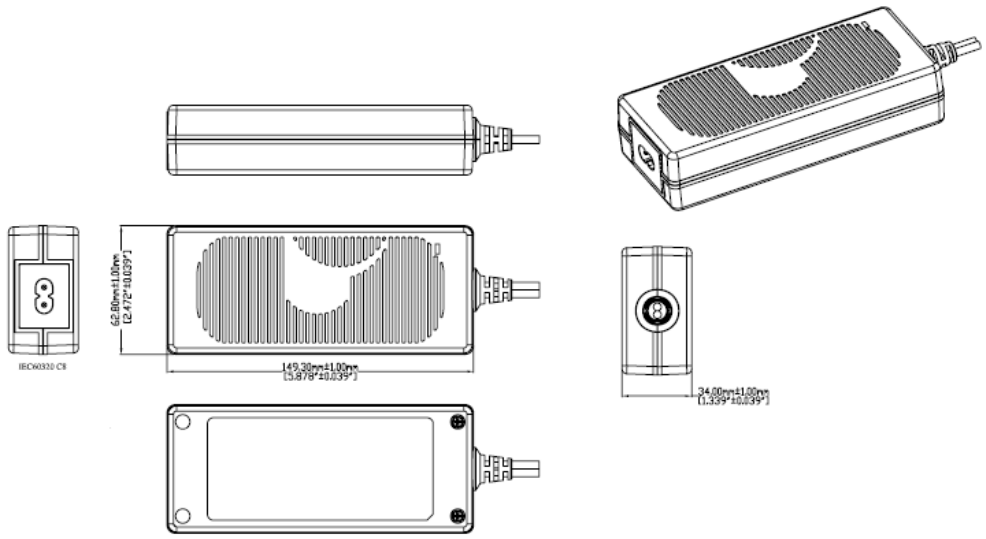
ENCLOSURE



RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM961200P11012-T212 V	9.2	110.40	RFQ
GTM961200P12015-T215 V	8	120.00	RFQ
GTM961200P12018-T218 V	6.66	119.88	RFQ
GTM961200P12019-T219 V	6.31	119.89	RFQ
GTM961200P12024-T224 V	5	120.00	RFQ
GTM961200P12036-T236 V	3.33	119.88	RFQ
GTM961200P12048-T248 V	2.5	120.00	RFQ
GTM961200P12054-T254 V	2.22	119.88	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:
01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
90-264Vac range @ 100% of rated load current
85-264 Vac range @ 90% of rated load current
90-370 VDC range @ 100% of rated load current
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50/60Hz
03. Power Factor: 0.90 minimum @ 230Vac, 0.97 minimum @ 115Vac
04. Output Regulation: +/- 4% measured at the output connector
05. Line Voltage Regulation: +/- 0.5% typical measured at full load
06. Green Power On Indicator LED
07. Output Ripple (Vp-p): 1% or 200 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector at nominal line
08. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% to 50% step load
09. Turn-ON Delay: 1 second typical
10. Hold-Up Time: 20 mS minimum
11. Inrush Current: 30A maximum at 115Vac input and 60A maximum at 230 Vac input
12. Switching Frequency: Varies from 25KHz to 125KHz
13. Efficiency: Compliant with Efficiency Level VI standard and 230 CoC Tier 2 Limits
14. No Load Standby Power: <0.15 W @ 230Vac

B) PROTECTION
01. Input Protection: Input line fusing and 300Vac rated MOV
02. Short Circuit/ Overload: Electronically Protected unit will auto recover upon removal of fault
Output Current Limit: Current limited to less than 170W / Vnom and 13A
(Vnom = nominal rated output voltage)
03. Over-Temperature : Latching Electronic Overtemperature protection. Cycle AC OFF to reset.
04. Output Over-Voltage: 110% to 135% of nominal output voltage under full load condition, and less than 60V max. Latching protection, cycle AC OFF to reset.

C) SAFETY
01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output,
On Class I models, 3000Vac or 4242Vdc from input to earth
02. Earth Leakage Current: Class I models < 300uA, N/A for Class II models
03. Touch Current: Class I models < 20uA, Class II models < 70uA
04. Output Isolation Options:
a) C8 or C18 Inlet, Class II
b) C6 or C14 Inlet, Class II FE, Output Isolated from Earth contact
c) C6 or C14 Inlet, Class I, Output negative directly attached to Earth contact
05. Earth Continuity Test: < 0.1 Ohm between Earth Pin at AC input and PCB termination point (Class I models only)
06. Means of Protection: 2 x MOPP
07. Primary to Secondary Bridging Capacitance: Two IEC60384-14 certified Y1 type capacitors in series
08. Compliant Standards: See listings at end of this drawing for specifics

D) EMC
EN 60601-1-2, 4th edition
Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22
Conducted Emissions: Class B, FCC Part 15, Class B
Radiated Emissions: Class B, FCC Part 15, Class B
Line Frequency Harmonics EN61000-3-2, Class A

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Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
Static Discharge 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, Criteria

E) OTHER:
01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, Full Load
02. Operating Temperature:
GTM961200P Family: -10°C to 40°C ambient temperature with full load
Regarding Operating Temperature,
a- See below derating table for output power capability at alternate temperature
b- Extended low end temperature range available as custom option
03. Humidity: 0% to 95% relative humidity, non-condensing
04. Storage Temperature: -30°C to 80°C
05. Cooling: Convection
06. ROHS: Compliant with latest regulations, see approvals section below
07. Operational Altitude: 5000M

F) DESKTOP STYLE ENCLOSURE
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 149.4 x 62.6 x 33.5 +/-1.0 mm
03. Markings: Label or Laser printed
04. AC Input mechanical options: Desktop C6, C8, C14 or C18 IEC Inlet.

G) SPECIAL OPTIONS
01. Custom Cordsets, various cordage types, and connector types
02. Custom Markings
03. Short term Output Surge Capability
04. Reduced Leakage Current version, medical CF leakage current compliance
05. Tightened output voltage tolerance
06. Reduced Output Ripple Level
07. LED Lighting, Class C Line Harmonics per 61000-3-2, from 85W to 120W output
08. Reduced output power marking/rating
09. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
10. Low Temperature operation, down to -40°C
11. Special Housing Colors and Cordset Colors
12. Epoxy Potted Version, “P2” or “P3” suffix, with flying wires

H) 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 https://en.globtek.com/news/high-current-coaxial-barrel-plug-jacks-for-high-wattage-power-supplies for a real time product offering of mating connectors.

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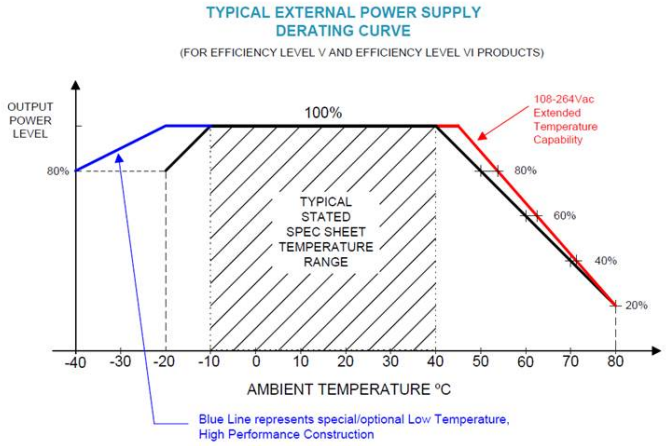
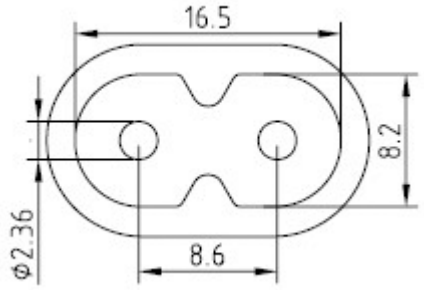
DERATING CURVE



Input Configuration

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



Mates with IEC 60320/C7 Plug

Standard International IEC 320/C7 Cordsets

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

2094112M703(R)	Argentina	IRAM 2063	IEC 320/C7	20007
5014112M703A(R)	Australian	AS 3112	IEC 320/C7	20007
207B4111M8703(R)	Brazil, Type N	NBR14136	IEC 320/C7	1800 6
4533501M8703(R)	China	GB 2099.1	IEC 320/C7	18306
2074112M703A(R)	European, Type C	CEE 7/16	IEC 320/C7	20007
2084111M8703(R)	India, Type D	BS 546	IEC 320/C7	1800 6
451J3401M8703(R)	Japan	JIS 8303	IEC 320/C7	18306
2044112M703®	Korea	KS C8305	IEC 320/C7	2000 7
4511116F703A(R)	N. American, Type A	NEMA 1-15P	IEC 320/C7	18306
4033401M8703A(R)	Taiwan	CNS690	IEC 320/C7	1830 6
6104112M703A(R)	UK, Type G	BS1363	IEC 320/C7	20007

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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
No Logo Applicable	CB for IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
No Logo Applicable	CB for IEC 60601-1:2006/A1:2013+A12:2014 IEC 60601-1-11:2015
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 60335-1.2010+A1
No Logo Applicable	CB for IEC61347-1:2015 + A1:2017 IEC61347-2-13:2014, A1:2016
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
	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 EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Declaration # ???? N RU ?-US.??75.?.01052 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance (R2012) [AAMI ES60601-1:2005 +C1;A2] [CSA C22.2#60601-1:2014 Ed.3] [AAMI HA60601-1-11:2015 Ed.2]
	Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision: 01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014]
	Indoor Use Only - Mark is on the label or Molded in the case

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JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations:
http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/

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 on PSE regulations:
http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/

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 on PSE regulations:
http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/

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)

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: http://en.globtek.com/importing-to-japan.php.

RCM certificate SAA-170646-EA; 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 (ROHS-3)
http://www.ce-mark.com/Rohs%20final.pdf

Intertek

S-Mark Certificate
EN 60601-1:2006 + A1:2013 + A12:2014
EN 60601-1-11:2015
(http://www.intertek.com/marks/s/)

Intertek

S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (http://www.intertek.com/marks/s/)

10276

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

VCCI

Japan: Voluntary Control Council for Interference (VCCI)

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