

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Drawing Title: GTM961200P12024-T2, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8, Output Rating: 120W, 24V@5A, Output Configuration: 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5\*2.1\*11mm WITH internal Spring Clip and Locking Notch or Equal, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C11224, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: RCM CCC EAC ETL S-Mark CB CB CB ETL CB CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE PSE PSE

Model No. GTM961200P12024-T2

Part No./Ordering No. TR9KI5000CCP-IM(R6B)

Rev B

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
В	Update Wire gauge from 14AWG to 16AWG	rchiu	11/15/2017	QA
Α	Initial Release	jwarn	05/02/2017	QA

In Addition to GlobTek Inc.'s renewed ISO9001:2008 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2003 - Medical Devices Quality Management System Certification

ISO14001:2004 - Environmental Management System Certification

ISO Certificates are available online at http://www.globtek.com/iso-certificates/

# **Customer Approval of Specification:**

Please approve, sign and send back to GlobTek so we can complete order processing.

A delay in receipt of this form will delay delivery schedule.

Company Name:

Customer P/N:

Quote Number:

Date:

Authorized Representative Name:

Authorized Representative Signature:

The acceptance of this specification and use of the product described in this document indicates the acceptance and binding of the customer to Globtek terms and conditions, which supersede all other agreements, terms, and conditions (http://en.globtek.com/terms-and-conditions/).

## Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

# Limitation of Use:

GlobTek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of GlobTek Inc.

Contents of this document are subject to change without prior notice.

GTM961200P12024-T2, 120W, 24V@5A, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor

Drawing Title: GTM961200P12024-T2, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8, Output Rating: 120W, 24V@5A, Output Configuration: 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5\*2.1\*11mm WITH internal Spring Clip and Locking Notch or Equal, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C11224, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: RCM CCC EAC ETL S-Mark CB CB CB ETL CB CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE PSE PSE

Model No. GTM961200P12024-T2

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#### POWER SUPPLY INFORMATION

TYPE: Desktop/External

TECHNOLOGY: Regulated Switchmode AC-DC Power Supply AC Adaptor

CASE COLOR: GlobTek Black

NAMEPLATE RATED

100-240V~, 50-60 Hz, 1.5 A INPUT:

INPUT CONFIG: IEC 60320/C8

WATTS: 120.0 VOLTS OUT: 24 CURRENT OUT (Amps): BLADE/CORD INCLUDED: N/A: BLADE/CORD INSTALLED: N/A:

**GROUNDING** 

(F1) Class II / Double Insulated CONFIGURATION

EFFICIENCY LEVEL:

**OUTPUT** 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5\*2.1\*11mm WITH internal Spring Clip and Locking Notch or Equal,

Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C11224 CONFIGURATION

CONNECTOR PIN OUT: Center Positive (+V) LABEL SPECS: Standard GT,L-1186

PACK SPEC: Standard DT, Cellular packaging

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec):

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

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Model No. GTM961200P12024-T2

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#### **ELECTRICAL SPECIFICATIONS**

#### A) ELECTRICAL SPECIFICATIONS:

- 01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240 Vac
  - 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: 8% 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

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

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

#### PROPRIETARY INFORMATION

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Model No. GTM961200P12024-T2

Part No./Ordering No. TR9KI5000CCP-IM(R6B)

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# E) OTHER:

- 01. MTBF: 500,000 Hours @ 40°C ambient temperature, Full Load
- 02. Operating Temperature:

GTM961200P Family: -20°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) 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

# 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.

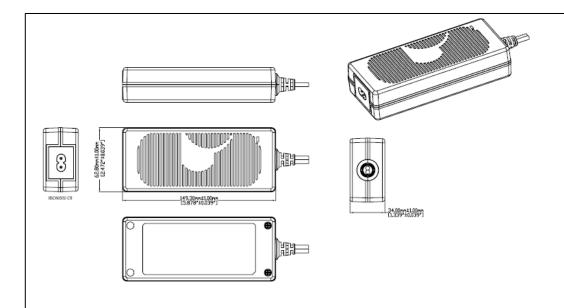
- 2.1mm PCB DC Power Jack ordering code: **JACK-C-PC-10A-RA(R)**
- 2.5mm PCB DC Power Jack ordering code: JACK-L-PC-10A-RA(R)

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Model No. GTM961200P12024-T2

Part No./Ordering No. TR9KI5000CCP-IM(R6B)

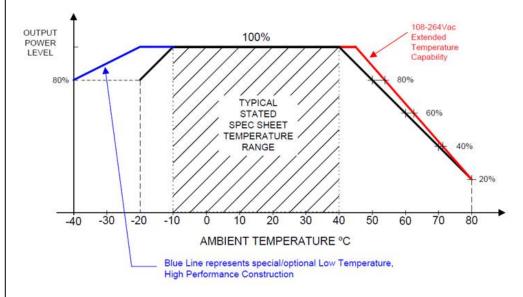
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## **DERATING CURVE**

## TYPICAL EXTERNAL POWER SUPPLY **DERATING CURVE**

(FOR EFFICIENCY LEVEL V AND EFFICIENCY LEVEL VI PRODUCTS)



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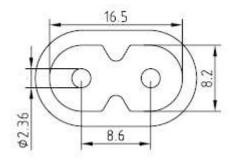
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#### INPUT CONFIGURATION

Grounding Configuration: Blades/Cord Included: N/A:

Blades/Cord Installed: N/A:

IEC 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.

## Conductors (No Ground) IEC 320/C7 (Figure "8")

`	,	,		
Part No	Country	End A	End B	Length
4511116F703A(R)	N. American	NEMA 1-15P	IEC 320/C7	1830
5014112M703A(R)	Australian	AS 3112	IEC 320/C7	2000
4533501M8703(R)	China	GB 2099.1	IEC 320/C7	1830
204B4222M703(R)	Brazil	Brazil NBR 6147	IEC 320/C7	2000
2074112M703A(R)	European	CEE 7/16	IEC 320/C7	2000
451J3401M8703(R)	Japan	JIS 8303	IEC 320/C7	1830
2044112M703A(R)	Korea	KS C 8305	IEC 320/C7	2000
4033401M8703A(R)	Taiwan	CNS 10917	IEC 320/C7	1800
6104112M703A(R)	UK	BS1363	IEC 320/C7	2000

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**OUTPUT CORD AND CONNECTOR:** C1S/C11224

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

CABLE TYPE UL 2468 CABLE LENGTH (mm) 1200 CABLE TOLERANCE (mm) ±100 WIRE GAUGE (AWG) 16 **CONDUCTORS** 2 HANK DIMENSION (mm) 95 ± 10

CABLE / CONNECTOR OVERMOLD COLOR GlobTek Black

FERRITE TYPE / DIMENSION Core Size: 14.2\*28.5\*8.2 FERRITE # OF TURNS (Definition) 2 Pass thru core (1 turns)

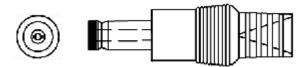
FERRITE DIMENSION FROM STRAIN RELIEF 50 ± 10 FERRITE DIMENSION FROM PLUG

**PLUG TYPE** Female Barrel 5.5\*2.1\*11mm WITH internal Spring Clip and Locking Notch or Equal

**OVER MOLD ORIENTATION** Straight

CONNECTOR PIN OUT: Center Positive (+V)

ADDITIONAL REQUIREMENTS



ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT http://www.globtek.com/connectors/ STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT http://www.globtek.com/connectors/

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#### LABEL:L-1186

Standard GT LABEL P/N:

MATERIAL: Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case

**BACKGROUND** 

Black if housing is Black, White or Silver if housing is White or Gray. COLOR:

TEXT COLOR:

White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is

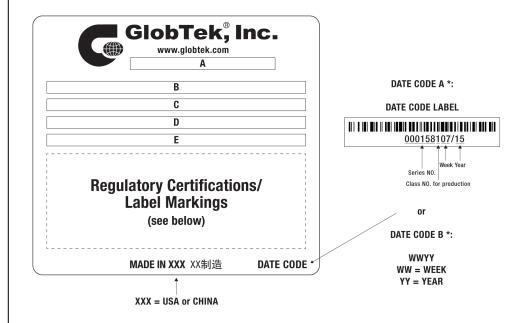
White or Gray

LABEL WIDTH (mm): LABEL HEIGHT (mm): 110

Below is the minimum information which will appear on the label. NOTE: in the logo area additional/actual positioning of symbols and text is subjected to change as per agency updates/requirements or additional model approvals become available.

Regulatory certifications/label markings may be in logo area on the label or molded into the case housing outside the label area.

Information will be shown via label and/or pad printed and/or molded and/or laser engraved in the case. \* Date code markings at GlobTek option.



A=ITE / Medical Power Supply

B=P/N: (料号) TR9KI5000CCP-IM(R6B) C=Model (型号) GTM961200P12024-T2 D=Input (输入) 100-240V~, 50-60 Hz, 1.5 A E=Output (输出)24 V == 5 A ,120.0W

http://www.globtek.info/certs/GTM961200P/ AGENCY ONLINE DOCUMENTS

CE EC-Declaration for Medical http://www.globtek.com/pdf/ec\_declaration/a0Oa000000MmWwCEAV CE EC-Declaration for Industrial/Commercial/ITE http://www.globtek.com/pdf/ec\_declaration/a0Oa000000MmWwCEAV

RoHS/RoHS2 Declaration http://www.globtek.com/pdf/rohs\_cert/01ta0000007dRFuAAM

**REACH Declaration** http://www.globtek.com/pdf/iso\_certificates/REACH.pdf

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**Conflict Minerals Declaration** 

http://www.globtek.com/pdf/conflict-minerals.pdf

IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.

# Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: http://en.globtek.com/datasheet/id/a0Oa000000MmWwC

http://www.globtek.info/certs/GTM961200P/ AGENCY ONLINE DOCUMENTS:



Center Positive (+V)

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## **PACKAGING**

Packing Spec P/N: Standard DT, Cellular

packaging

Box Qty: 20

Gift Box Size (mm): Egg Crate
Gift Box Color: White

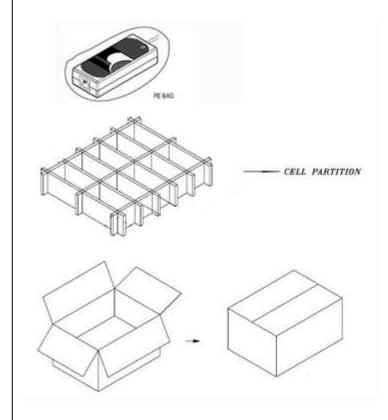
Master Carton Size (mm): 450\*461\*182

Master GW (Kg): 16.0 kg

BLADES INCLUDED: N/A:

BLADE/CORD INSTALLED: N/A:

If specific packaging is required, this section must specify all requirements and note "no exceptions". If this section does not specify packaging, it is subject to change without notice at GlobTek's discretion.



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INSTRUCTION SHEET						
N/A						