# imall

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM961200P10812-T2, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: Glo Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 I 60320/C8, Output Rating: 108W, 12V@9A, Output Configuration: 1200 mm, 14/1C + Shield Cond, UL 1185, F 5.5 * 2.5 * 11mm with internal Spring Clip and Locking Notch or Equal, Ferrite: Core size: 17.5*28.5*12.5, Glob Cord # C5137, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: RCM CCC EAC E CB CB ETL CB CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE	Hz, IEC emale Barrel Tek Black, GT TL S-Mark CB
	Model No. GTM961200P10812-T2	
	Part No./Ordering No. TR9KE9000LCP-IM(R6B)	Rev A

REVISION HISTORY				
REV	DESCRIPTION	SUB	DATE	APPROVED
A	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.

GTM961200P10812-T2, 108W, 12V@9A, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor

I www.dloblek.com	Drawing Title: GTM961200P10812-T2, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: Gld Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 I 60320/C8, Output Rating: 108W, 12V@9A, Output Configuration: 1200 mm, 14/1C + Shield Cond, UL 1185, F 5.5 * 2.5 * 11mm with internal Spring Clip and Locking Notch or Equal, Ferrite: Core size: 17.5*28.5*12.5, Glob Cord # C5137, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: RCM CCC EAC E CB CB ETL CB CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE Model No. GTM961200P10812-T2	Hz, IEC emale Barrel Tek Black, GT TL S-Mark CB
	Part No./Ordering No. TR9KE9000LCP-IM(R6B)	Rev A

### 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:	108.0
VOLTS OUT:	12
CURRENT OUT (Amps):	9
BLADE/CORD INCLUDED:	N/A:
BLADE/CORD INSTALLED:	: N/A:
GROUNDING	(F1) Class II / Double Insulated
CONFIGURATION	
EFFICIENCY LEVEL:	VI
OUTPUT	1200 mm, 14/1C + Shield Cond, UL 1185, Female Barrel 5.5 * 2.5 * 11mm with internal Spring Clip and Locking Notch
CONFIGURATION	or Equal, Ferrite: Core size: 17.5*28.5*12.5, GlobTek Black, GT Cord # C5137
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. GTM961200P10812-T2	
	Part No./Ordering No. TR9KE9000LCP-IM(R6B)	Rev A

# ELECTRICAL 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: 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, 4<sup>th</sup> 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

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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

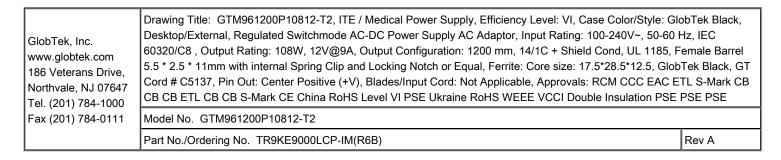
Several output connector options are available with various output current ratings. GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our 10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.

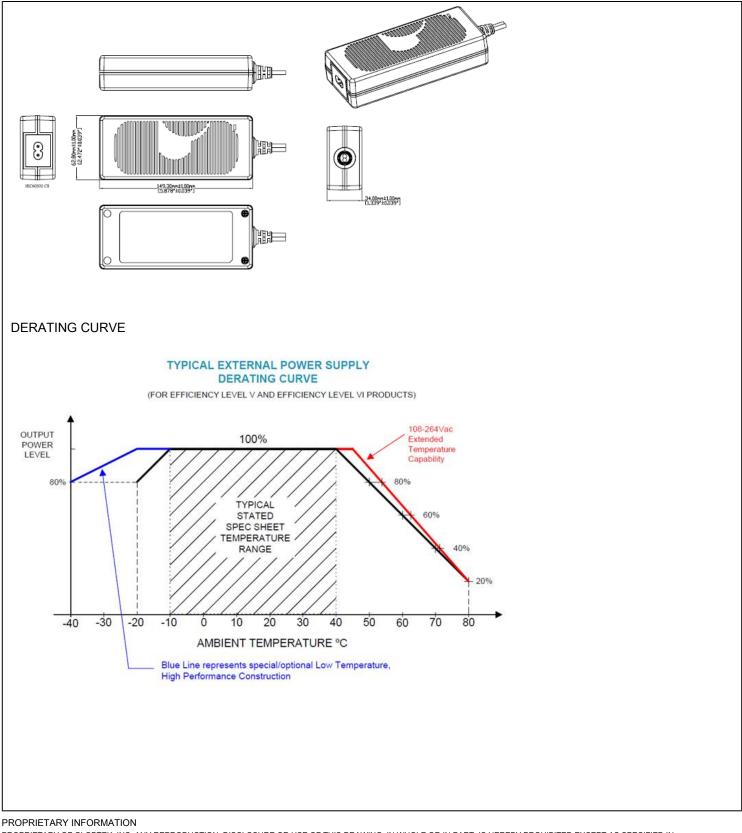
2.1mm PCB DC Power Jack ordering code: JACK-C-PC-10A-RA(R)

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

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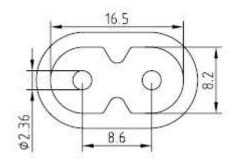
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# INPUT CONFIGURATION

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")

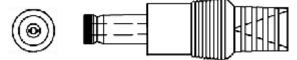
Part No	Country	End A	End B	Length	
4511116F703A(R)	N. American	NEMA 1-15P	IEC 320/C7	1830	
5014112M703A(R)	Australian	AS 3112	IEC 320/C7	2000	
4533501M8703(R)	China	GB 2099.1	IEC 320/C7	1830	
204B4222M703(R)	Brazil	Brazil NBR 6147	IEC 320/C7	2000	
2074112M703A(R)	European	CEE 7/16	IEC 320/C7	2000	
451J3401M8703(R)	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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Drawing Title: GTM961200P10812-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 GlobTek, Inc. 60320/C8, Output Rating: 108W, 12V@9A, Output Configuration: 1200 mm, 14/1C + Shield Cond, UL 1185, Female Barrel www.globtek.com 5.5 \* 2.5 \* 11mm with internal Spring Clip and Locking Notch or Equal, Ferrite: Core size: 17.5\*28.5\*12.5, GlobTek Black, GT 186 Veterans Drive, Cord # C5137, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: RCM CCC EAC ETL S-Mark CB Northvale, NJ 07647 CB CB ETL CB CB S-Mark CE China RoHS Level VI PSE Ukraine RoHS WEEE VCCI Double Insulation PSE PSE PSE Tel. (201) 784-1000 Fax (201) 784-0111 Model No. GTM961200P10812-T2 Part No./Ordering No. TR9KE9000LCP-IM(R6B) Rev A

OUTPUT CORD AND CONNECTOR: LCL/C5137 ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW CABLE TYPE UL 1185 CABLE LENGTH (mm) 1200 CABLE TOLERANCE (mm) +/-50 WIRE GAUGE (AWG) 14 CONDUCTORS 1C + Shield HANK DIMENSION (mm) 80 ± 15 CABLE / CONNECTOR OVERMOLD COLOR GlobTek Black FERRITE TYPE / DIMENSION Core size: 17.5\*28.5\*12.5 FERRITE # OF TURNS (Definition) 2 Pass thru core (1 turns) FERRITE DIMENSION FROM STRAIN RELIEF 50+/-10 FERRITE DIMENSION FROM PLUG N/A PLUG TYPE Female Barrel 5.5 \* 2.5 \* 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	
LABEL P/N: MATERIAL: BACKGROUND COLOR:	Standard GT Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case Black if housing is Black, White or Silver if housing is White or Gray.
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)	

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.



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Fax (201) 784-0111	Model No. GTM961200P10812-T2	
	Part No./Ordering No. TR9KE9000LCP-IM(R6B)	Rev A

Conflict Minerals Declaration <u>http://www.globtek.com/pdf/conflict-minerals.pdf</u>

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/a0Oa00000MmWwC

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

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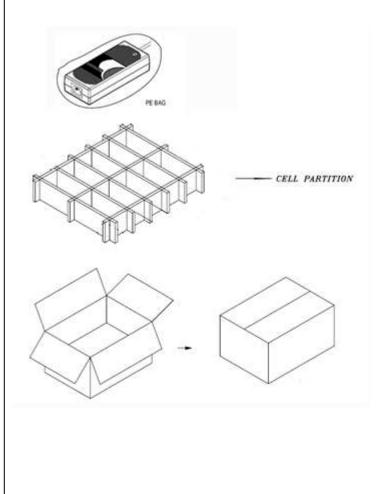
Center Positive (+V)

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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