

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: GTM91128LI3CEL, ITE / Medical Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Li-lon Battery Charger, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 w/ Wall Blades Option, Output Rating: 12.6W, 12.6V@1A, Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 2 Pin DC Jack, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C0780, Pin Out: Pin2: (-)/Pin1: (+), Blades/Input Cord: (Order Separately), Approvals: SIQ SIQ SIQ SIQ China RoHS CE RoHS China RoHS WEEE PSE Ukraine GOST-R Double Insulation cRUus ETL CB VCCI IP54

Model No. GTM91128LI3CEL

Part No./Ordering No. GTM91128LI3C1000XFX9

Rev

#### REVISION HISTORY

| REV | DESCRIPTION | SUB | DATE | APPROVED |
|-----|-------------|-----|------|----------|
| 1   |             |     |      |          |

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.

GTM91128LI3CEL, 12.6W, 12.6V@1A, Wall Plug-in+Desktop Combination, Li-Ion Battery Charger

Drawing Title: GTM91128LI3CEL, ITE / Medical Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Li-Ion Battery Charger, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 w/ Wall Blades Option, Output Rating: 12.6W, 12.6V@1A, Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 2 Pin DC Jack, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C0780, Pin Out: Pin2: (-)/Pin1: (+), Blades/Input Cord: (Order Separately), Approvals: SIQ SIQ SIQ SIQ China RoHS CE RoHS China RoHS WEEE PSE Ukraine GOST-R Double Insulation cRUus ETL CB VCCI IP54

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#### POWER SUPPLY INFORMATION

TYPE: Wall Plug-in+Desktop Combination

TECHNOLOGY: Li-Ion Battery Charger

CASE COLOR: GlobTek Black

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

INPUT CONFIG: IEC 60320/C8 w/ Wall Blades Option

WATTS: 12.6 VOLTS OUT: 12.6 CURRENT OUT (Amps): 1 BLADE/CORD INCLUDED: None: BLADE/CORD INSTALLED: None:

**GROUNDING** CONFIGURATION

**EFFICIENCY LEVEL:** N/A

1830 mm, 18/1C + Shield Cond, UL 1185, 2 Pin DC Jack, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord **OUTPUT CONFIGURATION** 

# C0780

CONNECTOR PIN OUT: Pin2: (-)/Pin1: (+)

LABEL SPECS: ISO 15223 medical device compliant label, L-1470

PACK SPEC: Standard DT, with Blades

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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#### **ELECTRICAL SPECIFICATIONS**

#### A) ELECTRICAL SPECIFICATIONS

Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz Input Current: < 1.5A RMS Max

- 01. Pre-Charge Current: 10% of bulk charge current (typical)
- 02. Bulk Charge Current: see table for nominal value, ±10% max variance
- 03. Full Charge Voltage: 1 cell: 4.2Vdc; 2 cell: 8.4Vdc, 3 cell: 12.6Vdc, +/-1% Max Variance
- 04. Charge Termination Current: 10% of bulk charge current (typical)
- 05. Pre-Charge to Bulk Charge Battery Transition Voltage: 1 cell: 2.86Vdc to 3.15Vdc, 2 cell: 5.72Vdc to 6.30Vdc; 3 cell:
- 8.58Vdc to 9.45Vdc Charger will be in pre-charge mode when the battery voltage is below the transition voltage.
- 06. Battery Charging Ambient Temperature: 0°C to 35°C
- 07. Back-Up Charge Termination Timer: 3 hours standard. Timer may be set to 3 to 12 hours range for batteries with high Ahr capacity by GT engineering. Charger will terminate charging when timer expired. Please advise Sales dept of you battery Ahr capacity.
- 08. LED Charge Status Indicator
  - a. Pre-Charge: Solid Amber
  - b. Bulk Charge: Solid Amber
  - c. Charge Complete: Solid Green
  - d. No battery or Fault: Green and Amber LED off
- B) ENERGY EFFICIENCY PERFORMANCE
- 01. CEC Compliant, to Battery Charger Requirements, with up to 10AHr battery
- 02. DOE Compliant, to Battery Charger Requirements, with up to 10AHr battery

#### C) PROTECTION MODES\*

- 01. Over Voltage Protection: 1 cell: 4.6Vdc 5.0Vdc, 2 cell: 9.2Vdc 10.0Vdc; 3 cell: 9.2Vdc 10.0Vdc Charger will terminate charging when over voltage occurs
- 02. Short Circuit Protection: Charger will not commence charging when BAT+ and BAT- are shorted
- 03. Over Temperature Protection: Charger will terminate charging if battery temperature reached 45°C±3°C. Charger will autorecover when temperature drops to about 30°C±3°C. For this feature, 10Kohm thermistor (NTC, 103AT) is required to be installed inside the battery pack. For battery packs without the thermistor, over temperature protection feature is not available and a 10K Ohm resistor is installed inside the charger to bypass the over temperature protection circuit.
- 04. Reverse Battery Protection: Battery should be mechanically protected from being installed reversed
- 05. Defective Battery Protection: If battery voltage will not rise above the pre-charge to bulk charge transition voltage (2.86Vdc to 3.15Vdc) within 30 minutes from the time pre-charging begins, the battery is considered defective and the charger will terminate charging.
- \*When fault condition occurs, the battery has to be removed from the charger and reinstalled after at least 3 seconds to reset the protection. Charging will commence after battery reinstallation only when the fault is cleared.

#### D) SAFETY

- 1. IEC 60950-1, IEC 60601-1, IEC 60335-1, IEC 61558-1.
- 2. Dielectric Withstand Voltage: 5656 Vdc from primary to secondary
- 3. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
- 4. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)

### E) OTHER:

- 01. MTBF: 300,000 Hours @ 25°C ambient temperature
- 02. Operating Temperature: 0°C to 35°C ambient temperature
- 03. Humidity: 0% to 90% relative humidity
- 04. Storage Temperature: -10°C to 70°C
- 05. Cooling: Convection

#### F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

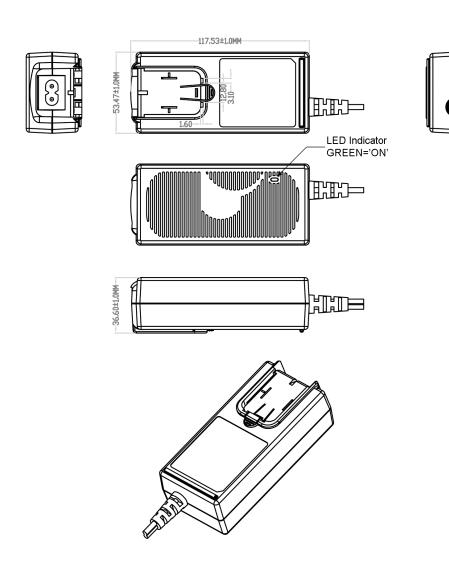
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- 02. Size: 53.47\*117.53\*36.6 +/-1.0 mm
- 03. Markings: Label and/or Pad Printed and/or Molded in the case
- 04. GREEN LED to indicate (see above electrical specifications)



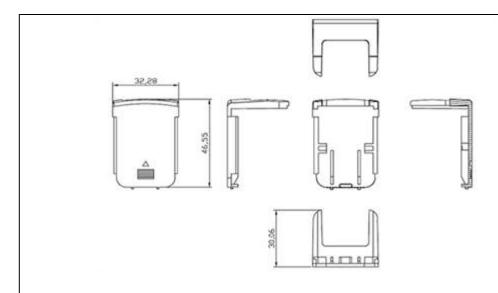
**DESKTOP INSERT INSTALL** 

Drawing Title: GTM91128LI3CEL, ITE / Medical Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Li-Ion Battery Charger, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 w/ Wall Blades Option, Output Rating: 12.6W, 12.6V@1A, Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 2 Pin DC Jack, Ferrite: Core Size: 14.2\*28.5\*8.2, GlobTek Black, GT Cord # C0780, Pin Out: Pin2: (-)/Pin1: (+), Blades/Input Cord: (Order Separately), Approvals: SIQ SIQ SIQ SIQ China RoHS CE RoHS China RoHS WEEE PSE Ukraine GOST-R Double Insulation cRUus ETL CB VCCI IP54

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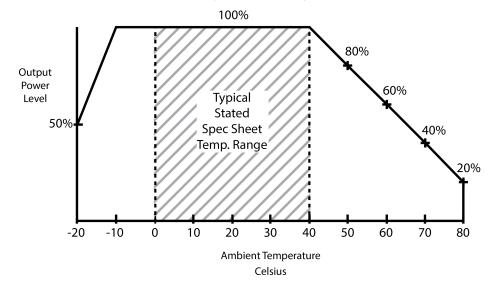
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#### **DERATING CURVE**

### **Typical External Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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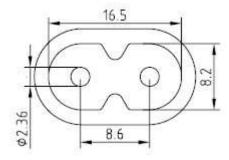
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#### INPUT CONFIGURATION

Blades/Cord Included: None:

Blades/Cord Installed: None:

IEC 60320/C8 AC Inlet connector Blade Insertion Instructions R-Blade Style Instruction Video



Mates with IEC 60320/C7 Plug

This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

- 1. Class II model NEMA 1-15P AC power plug with 2 prongs, R-NA-2(R)
- 2. Australian AS 3112 configuration: SAA 2 pins Class II, R-SAA-2(R)
- 3. UK BS 1363 configuration: UK 2 pins (dummy Ground) Class II, R-UK-2(R)
- 4. European CEE 7/16 configuration: Europlug 2 PINS, Class II, R-EU-2(R)
- 5. China GB 2099 configuration: 2 blades, Class II; CN P/N:R-CN-2(R)
- 6. Desktop Insert

Kits

05. R-KIT: 1,2,3,4 above 06. R-KIT-INTL: 2,3,4 above











EU 2P P/N: R-EU-2(R) SOUTH AMERICA



AUS 2P P/N: R-SAA-2(R) AUSTRALIA

NORTH AMERICA

JAPAN.

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#### Standard Cordsets

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. 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

| 4511116F703A(R)  | N. American, Type A | NEMA 1-15P | IEC 320/C7 | 1830 | 6      |  |
|------------------|---------------------|------------|------------|------|--------|--|
| 5014112M703A(R)  | Australian          | AS 3112    | IEC 320/C7 | 2000 | 7      |  |
| 2094112M703(R)   | Argentina           | IRAM 2063  | IEC 320/C7 | 2000 | 7      |  |
| 4533501M8703(R)  | China               | GB 2099.1  | IEC 320/C7 | 1830 | 6      |  |
| 2074112M703A(R)  | European, Type C    | CEE 7/16   | IEC 320/C7 | 2000 | 7      |  |
| 451J3401M8703(R) | Japan               | JIS 8303   | IEC 320/C7 | 1830 | 6      |  |
| 6104112M703A(R)  | UK, Type G          | BS1363     | IEC 320/C7 | 2000 | 7      |  |
| 2044112M703®     | Korea               | KS C8305   | IEC 320/C7 | 200  | 2000 7 |  |
| 4033401M8703A(R) | Taiwan              | CNS690     | IEC 320/C7 | 183  | 0 6    |  |
| 207B4111M8703(R) | Brazil              | NBR14136   | IEC 320/C7 | 180  | 0 6    |  |

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#### **OUTPUT CORD AND CONNECTOR:** FX9/C0780

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

CABLE TYPE UL 1185 CABLE LENGTH (mm) 1830 CABLE TOLERANCE (mm) +150-0 WIRE GAUGE (AWG) 18

**CONDUCTORS** 1C + Shield HANK DIMENSION (mm) 80mm +10 -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)

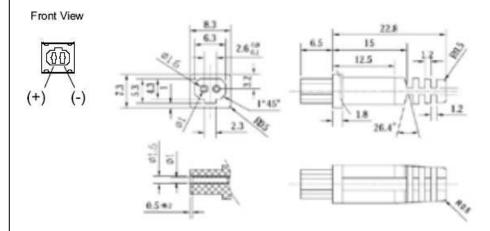
FERRITE DIMENSION FROM STRAIN RELIEF 50mm +/-10

FERRITE DIMENSION FROM PLUG N/A

2 Pin DC Jack **PLUG TYPE OVER MOLD ORIENTATION** Straight

CONNECTOR PIN OUT: Pin2: (-)/Pin1: (+)

ADDITIONAL REQUIREMENTS



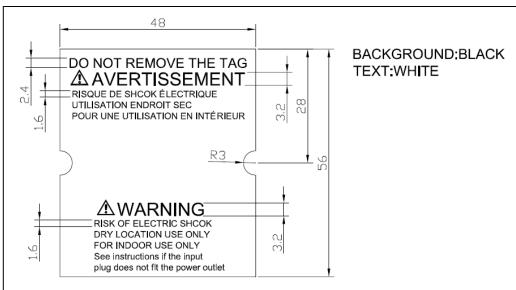
Warning label to be added to the cable (next to case strain relief):

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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-1470

LABEL P/N: ISO 15223 medical device compliant label

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

BACKGROUND COLOR:

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

TEXT COLOR:

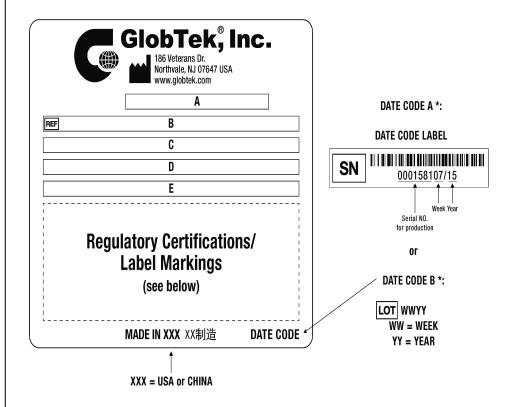
White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is

White or Gray

LABEL WIDTH (mm): 45.0 LABEL HEIGHT (mm): 50.0

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.

Agency logos may be in Regulatory Certifications/Label Markings 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 in the case.



A=ITE / Medical Power Supply
B=P/N: (料号) GTM91128LI3C1000XFX9
C=Model (型号) GTM91128LI3CEL
D=Input (输入) 100-240V~, 50-60 Hz, 1.5A
E=Output (输出)12.6 V == 1 A ,12.6W

AGENCY ONLINE DOCUMENTS

http://globtek.info/certs/GTM91128%20Lithium%20Ion%20Battery/

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CE EC-Declaration for Medical http://www.globtek.com/pdf/ec\_declaration/a0Oa000000C2KH4EAN

CE EC-Declaration for Industrial/Commercial/ITE http://www.globtek.com/pdf/ec\_declaration/a0Oa000000C2KH4EAN

RoHS/RoHS2 Declaration http://www.globtek.com/pdf/rohs\_cert/01ta0000003dRHzAAM

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

http://www.globtek.com/pdf/conflict-minerals.pdf **Conflict Minerals Declaration** 

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/a0Oa000000C2KH4

AGENCY ONLINE DOCUMENTS: http://globtek.info/certs/GTM91128%20Lithium%20lon%20Battery/

FRONT VIEW



Pin2: (-)/Pin1: (+)

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### **PACKAGING**

Packing Spec P/N: Standard DT, with Blades

Box Qty: 60

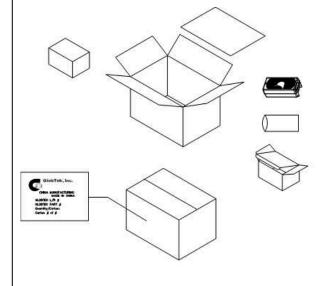
Gift Box Size (mm): 142\*60\*62
Gift Box Color: White
Master Carton Size (mm): 442\*330\*275

Master GW (Kg): 15.2 kg
BLADES INCLUDED: None:

**BLADE/CORD** 

INSTALLED: None:

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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Part No./Ordering No. GTM91128LI3C1000XFX9

Rev

| INSTRUCTION SHEET      |  |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|--|
| N/A                    |  |  |  |  |  |  |  |  |
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| DODDIETADY INFORMATION |  |  |  |  |  |  |  |  |