

Model:GTM91128LIXCELM

May 7, 2024

## GTM91128LIXCELM

### Information

#### Model Number

GTM91128LIXCELM

#### Description

GTM91128LIXCELM, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Wall Plug-in+Desktop Combination, Li-Ion Battery Charger, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 AC Inlet connector, Output Rating: 12.6 Watts, Power rating with convection cooling (W) , 4.2-12.6V in 0.1V increments, Approvals: ETL; CE; China RoHS; Double Insulation; PSE; RoHS; Ukraine; VCCI; WEEE; IP54; cETLus 62368-1; S-Mark IEC/EN 60601-1; S-Mark 62368;

#### Model Picture



#### Agency Documents

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

#### CE EC-Declaration

[https://www.globtek.com/pdf/ec\\_declaration/a0O0c00000PHb2xEAD](https://www.globtek.com/pdf/ec_declaration/a0O0c00000PHb2xEAD)

#### RoHS/RoHS2 Declaration

[https://www.globtek.com/pdf/rohs\\_cert/a0O0c00000PHb2xEAD](https://www.globtek.com/pdf/rohs_cert/a0O0c00000PHb2xEAD)

#### REACH Declaration

[https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](https://www.globtek.com/pdf/iso_certificates/REACH.pdf)

#### Conflict Minerals Declaration

<https://www.globtek.com/pdf/conflict-minerals.pdf>

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**MODEL PARAMETERS**

|                    |                                  |
|--------------------|----------------------------------|
| Type               | Wall Plug-in+Desktop Combination |
| Technology         | Li-Ion Battery Charger           |
| Category           | ICT / ITE / Medical Power Supply |
| Input Voltage      | 100-240V~, 50-60 Hz              |
| I/P Amps (A)       | 1A                               |
| Wattage (W)        | 12.6                             |
| Vout Range (V)     | 4.2-12.6                         |
| Efficiency Level   | N/A                              |
| Ingress Protection | Indoor Use                       |
| Size (mm)          | 102*46*37                        |

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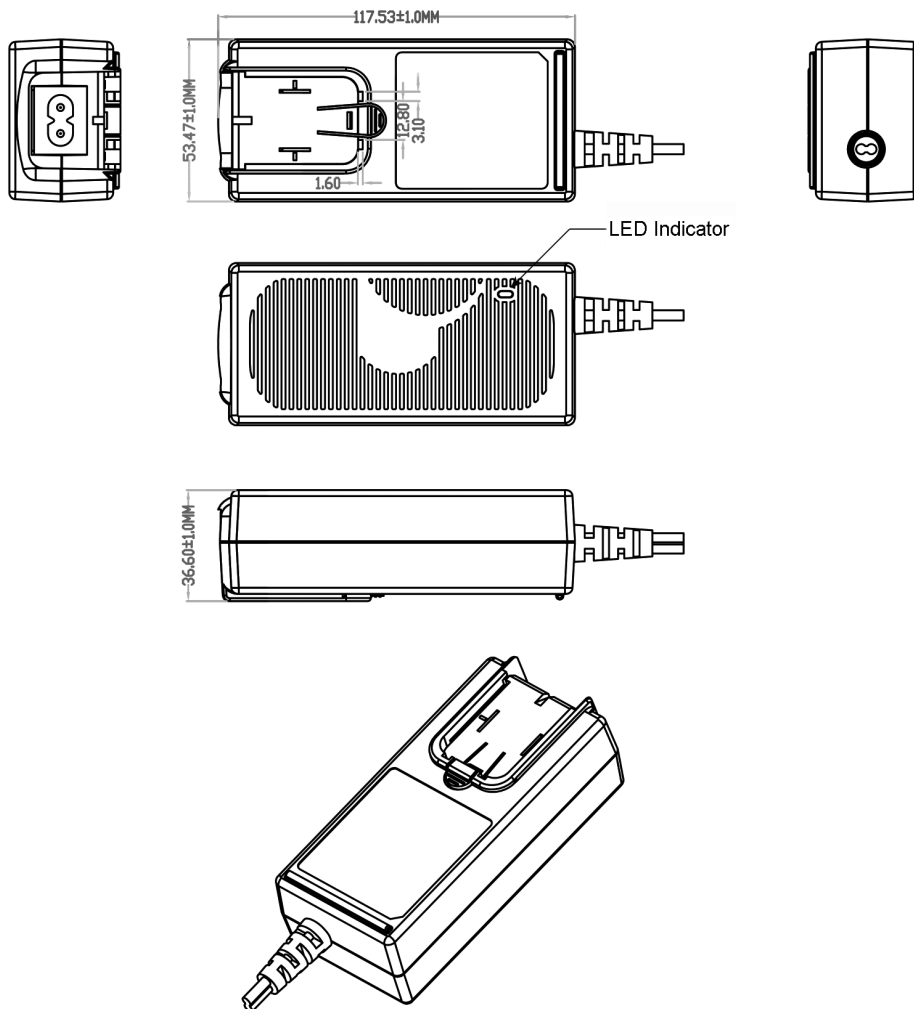
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## ENCLOSURE

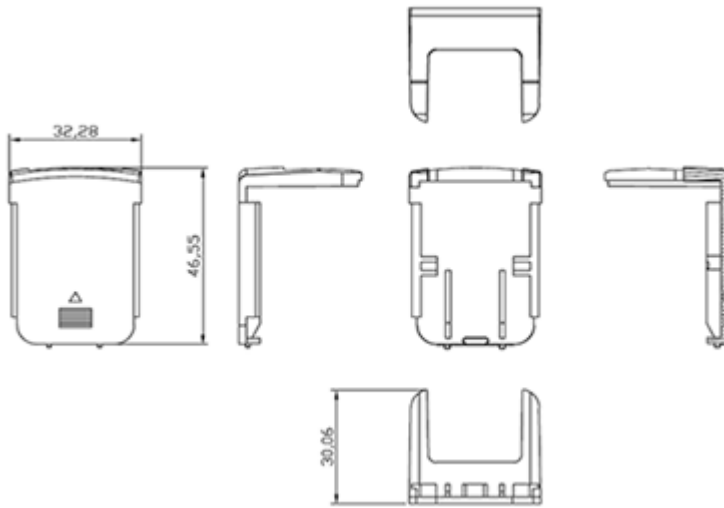


DESKTOP INSERT INSTALL

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## RATING TABLE

| Model Number                  | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-------------------------------|---------|---------|----------|---------------------|
| GTM91128LI2CELM               | V       |         |          | <a href="#">RFQ</a> |
| GTM91128LI2CELM-R2-8400595010 | 8.4 V   | 0.5     | 4.20     | <a href="#">RFQ</a> |

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## 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,  $\pm 10\%$  max variance

03. Full Charge Voltage: 1 cell: 4.2Vdc; 2 cell: 8.4Vdc, 3 cell: 12.6Vdc,  $\pm 1\%$  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  $45^{\circ}\text{C} \pm 3^{\circ}\text{C}$ . Charger will autorecover when temperature drops to about  $30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ . 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)

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## 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

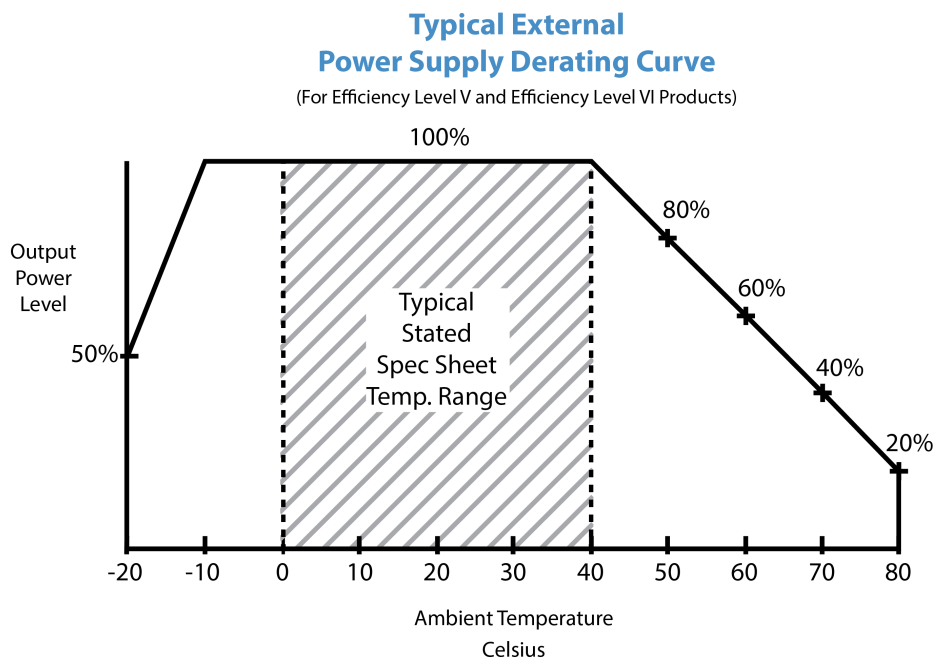
## F) ENCLOSURE

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

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## DERATING CURVE



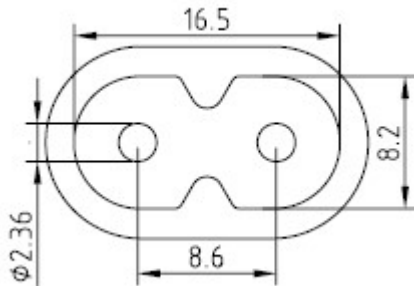


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## INPUT CONFIGURATION

Description IEC 60320/C8 AC Inlet connector

[Blade Insertion Instructions](#)
[R-Blade Style Instruction Video](#)


Mates with IEC 60320/C8 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

| # Part Number                     | Main Country/Region    | Plug                                                       | IECEE Type |
|-----------------------------------|------------------------|------------------------------------------------------------|------------|
| 1 <a href="#">R-NA-2(R)</a>       | North America, Japan   | Nema 1-15P                                                 | Type A     |
| 2 <a href="#">R-SAA-2(R)</a>      | Australia/New Zealand  | AS/NZ 3112                                                 | Type I     |
| 3 <a href="#">R-UK-2(R)</a>       | United Kingdom/Ireland | UK, Hong Kong, Singapore, Gulf States                      | Type G     |
| 4 <a href="#">R-EU-2(R)</a>       | Europe                 | CEE 7/16                                                   | Type C     |
| 5 <a href="#">R-CN-2(R)</a>       | China                  | GB 2099                                                    | Type A     |
| 6 <a href="#">461-03030003(R)</a> | N/A                    | <a href="#">R-DI(R) Desktop Insert for use with a cord</a> | N/A        |
| 7 <a href="#">R-KIT-2(R)</a>      | prepackaged kit        | 1,2,3,4 above                                              | N/A        |
| 8 <a href="#">R-KIT-2-INTL(R)</a> | prepackaged kit        | 2,3,4 above                                                | N/A        |

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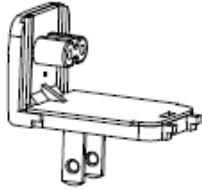
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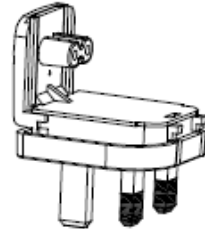
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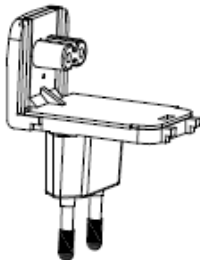
## UL 2P

P/N: R-NA-2(R)  
NORTH AMERICA  
JAPAN


## AUS 2P

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


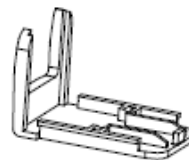
## UK 2P

P/N: R-UK-2(R)  
UNITED KINGDOM  
HONG KONG  
SINGAPORE


## EU 2P

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


## CN 2P

P/N: R-CN-2(R)  
CHINA


## R-DI

P/N: R-DI  
DESKTOP INSERT

### 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](#)

| Part Number                            | Country             | Plug      | Connector  | Length (mm) | Length (feet) |
|----------------------------------------|---------------------|-----------|------------|-------------|---------------|
| <u><a href="#">2094112M703(R)</a></u>  | Argentina (Type I)  | IRAM 2063 | IEC 320/C7 | 2000        | 7             |
| <u><a href="#">5014112M703A(R)</a></u> | Australian (Type I) | AS 3112   | IEC 320/C7 | 2000        | 7             |

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|                                  |                                                      |            |            |      |   |
|----------------------------------|------------------------------------------------------|------------|------------|------|---|
| <a href="#">207B4111M8703(R)</a> | Brazil (Type N)                                      | NBR14136   | IEC 320/C7 | 1800 | 6 |
| <a href="#">4533501M8703(R)</a>  | China (Type A)                                       | GB 2099.1  | IEC 320/C7 | 1830 | 6 |
| <a href="#">2074112M703A(R)</a>  | European (Type C)                                    | CEE 7/16   | IEC 320/C7 | 2000 | 7 |
| <a href="#">2084111M8703(R)</a>  | South Africa (Type M)                                | BS 546     | IEC 320/C7 | 1800 | 6 |
| <a href="#">2084111M8703B(R)</a> | India (Type D)                                       | ISI:1293   | IEC 320/C7 | 1800 | 6 |
| <a href="#">2714111M8703A(R)</a> | India (Type C)                                       | ISI:1293   | IEC 320/C7 | 1800 | 6 |
| <a href="#">451J3401M8703(R)</a> | Japan (Type A)                                       | JIS 8303   | IEC 320/C7 | 1830 | 6 |
| <a href="#">2044112M703A(R)</a>  | Korea (Type C)                                       | KS C8305   | IEC 320/C7 | 2000 | 7 |
| <a href="#">4511116F703A(R)</a>  | N. American (Type A)                                 | NEMA 1-15P | IEC 320/C7 | 1830 | 6 |
| <a href="#">4033401M8703A(R)</a> | Taiwan (Type A)                                      | CNS690     | IEC 320/C7 | 1830 | 6 |
| <a href="#">6104112M703A(R)</a>  | UK, Hong Kong,<br>Singapore, Gulf States<br>(Type G) | BS1363     | IEC 320/C7 | 2000 | 7 |

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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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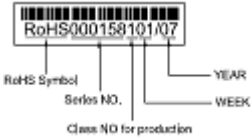
## Approvals

| Logo                                                                                                 | Description                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | CE Certification                                                                                                                                                                                                                                               |
|                     | CHINA SJ/T 11364-2014, China RoHS Chart:<br><a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>                    |
| Conforms to UL STD.<br>62368-1<br>Certified to CSA STD<br>C22.2 NO.62368-1                           | Conforms to UL STD. 62368-1<br>Certified to CSA STD C22.2 NO.62368-1                                                                                                                                                                                           |
|                     |                                                                                                                                                                                                                                                                |
|                   | Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27<br>Ed: 2 Rev: 2014/10/14)<br>Information Technology Equipment Safety Part 1: General Requirements (CSA C22.2 No. 60950-1                                   |
|                   | Indoor Use Only - Mark is on the label or Molded in the case                                                                                                                                                                                                   |
| IP54                                                                                                 | Ingress Protection: ?IP54 to IEC60529:2001 Protected against dust - limited ingress (no harmful deposit) and Protected against sprays from all directions - limited ingress permitted                                                                          |
| <br>GlobTek, Inc. | JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25,[15V or less]. Please reference the following website for guidelines on PSE regulations:<br><a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a> |
| RoHS                                                                                                 | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3)<br><a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                                                  |
|                   | EN 60601-1:2006 + A1:2013 + A12:2014<br>EN 60601-1-11:2015                                                                                                                                                                                                     |
|                                                                                                      |                                                                                                                                                                                                                                                                |

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|   | Serial Number Information                                                                                                                                                                                         |
|   | Ukraine UKRSepr (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )                                                       |
|   | Japan: Voluntary Control Council for Interference (VCCI)                                                                                                                                                          |
|  | WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> )<br>Mark is on the label or Molded in the case |