

Delivering leading edge, innovative power solutions for more than **30** years....

Model:GT-91128LIXCEL

April 23, 2021

## GT-91128LIXCEL

### Information

Model Number

GT-91128LIXCEL

Description

GT-91128LIXCEL, ICT/ITE Power Supply, Wall Plug-in, Li-Ion Battery Charger, , Input Rating: 100-240V~, 50-60 Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 4.2 Watts, Power rating with convection cooling (W) , 4.2V in 0.1V increments, Approvals: ETL; CB 60335;

Model Picture



### Agency Documents

CE EC-Declaration

[https://www.globtek.com/pdf/ec\\_declaration/a0Oa000000MmNnVEAV](https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmNnVEAV)

RoHS/RoHS2 Declaration

[https://www.globtek.com/pdf/rohs\\_cert/a0Oa000000MmNnVEAV](https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmNnVEAV)

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
Technology	Li-Ion Battery Charger
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	2A
Wattage (W)	4.2
Vout Range (V)	4.2
Efficiency Level	N/A
Ingress Protection	Indoor Use
Size (mm)	60*65*26

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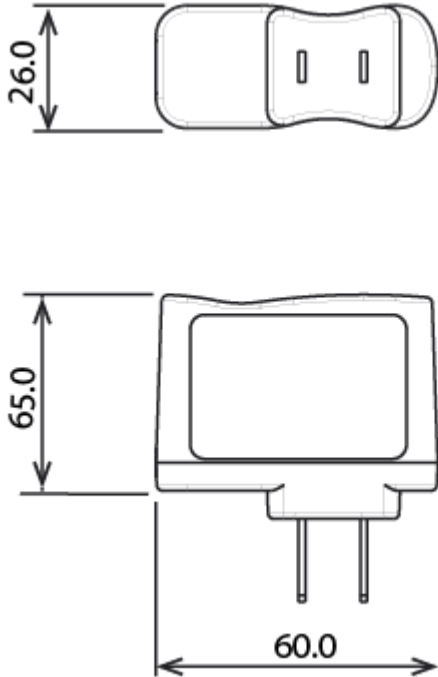
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## ENCLOSURE



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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-91128LI1CEL	4.2 V	1	4.20	<a href="#">RFQ</a>
GT-91128LI1CEL	8.4 V	1.2	10.08	<a href="#">RFQ</a>

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS per each channel:

Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac

Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz

Input Current: < 2A RMS Max

01. Charging Voltage: 1 cell: 4.2Vdc, +/-1% Maximum; 2 cell: 8.4Vdc, +/-1% Maximum; 3 cell: 12.6Vdc, +/-1% Maximum

02. Pre-Charge Current: 10% of bulk charge current

03. Bulk Charge Current: ±10%

04. Pre-Charge to Bulk Charge Battery

05. 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. Charge Termination Current: 10% of bulk charge current

08. Back-Up Charge Termination: Timer set 2 to 3 hours after the expected full charge time

09. Charger will terminate charging when timer expired

10. Battery Protection

11. LED Charge Status Indicator

a. Pre-Charge: Solid Red

b. Bulk Charge: Solid Red

c. Charge Complete: Solid Green

d. No battery or Fault: Green and Red LED off

### B) PROTECTION\*

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. Reverse Battery Protection: Battery should be mechanically protected from being installed reversed

04. 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.

### C) SAFETY

1. Dielectric Withstand Voltage: 4242 Vdc from primary to secondary

2. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured

3. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)

### D) OTHER:

01. MTBF: 200,000 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

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05. Cooling: Convection

## E) ENCLOSURE

- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Size: 60\*65\*26 +/-1.0 mm
- 03. Markings: Label and/or Pad Printed and/or Molded in the case

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**DERATING CURVE**

N/A

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**INPUT CONFIGURATION**

Description	NEMA 1-15P, North America Blades, Class II 2 Conductors
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All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.



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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	IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
	IEC 60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.- Part 1-11: Gen. Req. for Basic Safety &Essential Perf.- Collateral Standard - Req. for Medical Elec. Equip. & Medical Elec.Systems Used in the Home Healthcare Environment