

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

Model:BL0950C146502S1P\*\*\*

May 11, 2025

## BL0950C146502S1P\*\*\*

### Information

|              |                                                                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number | BL0950C146502S1P***                                                                                                                                                                   |
| Description  | BL0950C146502S1P***, , Battery Cylindrical Can, Battery Li-Ion, , Input Rating: , , Output Rating: Watts, Power rating with convection cooling (W) , V in 0.1V increments, Approvals: |

### Model Picture



**For Representation Only**

### Agency Documents

|                               |                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O3a00000MAmiSEAT">https://www.globtek.com/pdf/ec_declaration/a0O3a00000MAmiSEAT</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O3a00000MAmiSEAT">https://www.globtek.com/pdf/rohs_cert/a0O3a00000MAmiSEAT</a>           |
| REACH Declaration             | <a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>               |
| Conflict Minerals Declaration | <a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>                         |

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**MODEL PARAMETERS**

|                    |                         |
|--------------------|-------------------------|
| Type               | Battery Cylindrical Can |
| Technology         | Battery Li-Ion          |
| Category           |                         |
| Input Voltage      |                         |
| I/P Amps (A)       |                         |
| Wattage (W)        |                         |
| Vout Range (V)     |                         |
| Efficiency Level   |                         |
| Ingress Protection | IPx0                    |
| Size (mm)          |                         |

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<https://www.globtek.com/ds/XbtLggFbGSd/UpcqFkxiVAU.html#datasheet>

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ENCLOSURE

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## RATING TABLE

| Model Number         | Voltage | Amps(A) | Watts(W) | RFQ                 |
|----------------------|---------|---------|----------|---------------------|
| BL0950C146502S1PGKT  | V       |         |          | <a href="#">RFQ</a> |
| BL0950C146502S1PGKTM | V       |         |          | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### GENERAL SPECIFICATION:

CELL: MR14650FP095

PCM: HY2120

NTC: N/A

ID: N/A

CONFIGURATION: 2S1P

Fuel Gauge N/A

### 2.ELECTRICAL SPECIFICATION FOR PACK:

RATED CAPACITY: 950 mAh

NOMINAL VOLTAGE: 7.4V

WATT-HOUR RATING: 7.03WH

CHARGING METHOD: CONSTANT CURRENT + CONSTANT VOLTAGE

MAX. CHARGE VOLTAGE [V]: 8.4V

CHARGE CURRENT: 1.0C max

RECOMMENDED CHARGE CUT OFF: BY CURRENT 0.05C OR TIMER 5H

MAX. CONTINUOUS DISCHARGE CURRENT: 1.0C

RECOMMENDED DISCHARGE CUT OFF: 6V

INTERNAL IMPEDANCE:  $\leq 160\text{m}\Omega$ >500 CYCLES > 70% OF INITIAL CAP.  
(0,5C/0,5C)

EXP. CYCLE LIFE:

### CELL PROTECTION:

4.28  $\pm 0.025\text{V/CELL}$ 

### OVER CHARGE DETECTION:

(0.5 TO 1.5SEC. DELAY, RESUME

4.08 $\pm 0.025\text{V}$ )

### OVER DISCHARGE DETECTION:

2.90  $\pm 0.08\text{V/CELL}$ (50 to 180msec. DELAY, RESUME 3.0 $\pm 0.1\text{V}$ )

### OVER CURRENT DETECTION:

3.0A to 7.0A (16msec.MAX DELAY)

### 3. AMBIENT CONDITIONS

#### TEMPERATURE RANGE:

CHARGE: 0 TO +45°C

DISCHARGE: -20 TO +60°C

1 YEAR AT -20 TO +20°C &gt;80%

CHARGE RETENTION/STORAGE [%]:

3 MONTHS AT -20 TO +45°C &gt;80%

1 MONTH AT -20 To +60°C &gt;80%

60  $\pm 25\%$ RH

#### HUMIDITY:

60 $\pm 25\%$ RH

### 4.ENVIRONMENTAL AND SAFETY

PLEASE FOLLOW GlobTek, Inc. HANDLING  
AND SAFETY PRECAUTIONS FOR Lilon &  
LiPolymer.

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5. CELL REGULATORY APPROVALS:

CELL APPROVED TO UL 1642

6. BATTERY PACK APPROVALS:

RoHS:

COMPLIES WITH EU 2002/95/EC AND  
CHINA SJ/T 11363-2006

CE Mark:

COMPLIES WITH 2004/108/EC  
ELECTROMAGNETIC COMPLIES WITH  
2013/56/EU EN61000-6-1:2007,  
EN61000-6-3:2007

TRANSPORTATION:

Pack approved to UN38.3

Safety:

Designed to meet UL2054; IEC 62133

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## DERATING CURVE

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## INPUT CONFIGURATION

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## Approvals

|      |  |
|------|--|
| Logo |  |
|------|--|