

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

Model:BL2500C186502S1PGQR

May 19, 2024

## BL2500C186502S1PGQR

### Information

Model Number	BL2500C186502S1PGQR
Description	BL2500C186502S1PGQR, , 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/a0O3a00000NpgnEEAR">https://www.globtek.com/pdf/ec_declaration/a0O3a00000NpgnEEAR</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0O3a00000NpgnEEAR">https://www.globtek.com/pdf/rohs_cert/a0O3a00000NpgnEEAR</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)	

**PROPRIETARY INFORMATION**

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ENCLOSURE

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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
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## SPECIFICATIONS

### GENERAL SPECIFICATION:

CELL:	LR1865SK (21NR19/65) BQ40Z50(Battery Fuel Gauge with Programmable Hardware Protection)+BQ24610(Charger)
PCM:	
NTC:	N/A
ID:	N/A
CONFIGURATION:	2S1P
Fuel Guage	BQ40Z50
2.ELECTRICAL SPECIFICATION FOR PACK:	
RATED CAPACITY:	2500 mAh
NOMINAL VOLTAGE:	7.3V
WATT-HOUR RATING:	18.25WH
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
MAX. CHARGE VOLTAGE [V]:	8.3V(±50mV)
CHARGE CURRENT:	1.0A
RECOMMENDED CHARGE CUT OFF:	By current 0.05C or timer 6.5H
MAX. CONTINUOUS DISCHARGE CURRENT:	1.0C
RECOMMENDED DISCHARGE CUT OFF:	6V
INTERNAL IMPEDANCE:	≤200mΩ >300 cycles >70% of initial capacity (0.2C charge/0.2C discharge)
EXP. CYCLE LIFE:	
CELL PROTECTION:	
OVER CHARGE DETECTION:	4.2±0.025V/cell (2 SEC. DELAY, RESUME 4.10±0.025V/cell) 2.80±0.05V/cell (2sec. DELAY, RESUME
OVER DISCHARGE DETECTION:	3±0.05V/cell REMOVE LOAD & CHARGING CURRENT)
OVER CURRENT DETECTION:	4-6A (2sec. DELAY) SHORT CURRENT DETECTION: 854us DELAY
3. AMBIENT CONDITIONS	
TEMPERATURE RANGE:	
CHARGE:	0 TO +45°C
DISCHARGE:	-20 TO +60°C
CHARGE RETENTION/STORAGE [%]:	1 YEAR AT -20 TO +20°C >80% 3 MONTHS AT -20 TO +40°C >80% 1 MONTH AT -20 To +60°C >80%
	60 ±25%RH  (FOR BATTERIES STORED AT APPROX. 40% STATE OF CHARGE) Every 3 months @ -20°C TO 25°C
BATTERY STORAGE MAINTENANCE INTERVAL	

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HUMIDITY:	Every 1 month @ -20°C TO 60°C 60±25%RH
4.ENVIRONMENTAL AND SAFETY	PLEASE FOLLOW GlobTek, Inc. HANDLING AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.
5. RECOMMENDED CHARGING SOURCE SPECIFICATION:	
CHARGING SOURCE INPUT VOLTAGE:	9-14VDC
CHARGING SOURCE INPUT CURRENT:	2A
6. CELL REGULATORY APPROVALS:	CELL APPROVED TO UL 1642
7. 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	
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