

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

Model:BL3500C186504S2P\*\*\*

May 15, 2024

## BL3500C186504S2P\*\*\*

### Information

Model Number	BL3500C186504S2P***
Description	BL3500C186504S2P***, , 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/a0O3a00000NqGvaEAF">https://www.globtek.com/pdf/ec_declaration/a0O3a00000NqGvaEAF</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0O3a00000NqGvaEAF">https://www.globtek.com/pdf/rohs_cert/a0O3a00000NqGvaEAF</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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ENCLOSURE

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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
BL3500C186504S2PPCT	V			<a href="#">RFQ</a>
BL3500C186504S2PPQT	V			<a href="#">RFQ</a>

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## SPECIFICATIONS

### GENERAL SPECIFICATION:

CELL:	LR1865HB
PCM:	BQ24610/BQ40Z50
NTC:	N/A
ID:	N/A
CONFIGURATION:	4S2P
Fuel Gauge	BQ40Z50

### 2.ELECTRICAL SPECIFICATION FOR PACK:

RATED CAPACITY:	6500mAh (16.8V- 10V discharge @ 0.2C)
NOMINAL VOLTAGE:	14.4V
WATT-HOUR RATING:	93.6Wh
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
MAX. CHARGE VOLTAGE [V]:	16.6V(±50mV)
CHARGE CURRENT:	800mA
RECOMMENDED CHARGE CUT OFF:	By current 0.02C or timer 9-10 hours
MAX. CONTINUOUS DISCHARGE CURRENT:	0.5C(3.25A)
RECOMMENDED DISCHARGE CUT OFF:	11.2V ± 50mV (2.8V/cell)
INTERNAL IMPEDANCE:	≤300mΩ
EXP. CYCLE LIFE:	>300 cycles >70% of initial capacity (0.2C charge/0.2C discharge)

### CELL PROTECTION:

OVER CHARGE DETECTION:	4.225±0.05V/Cell (2 SEC. DELAY, RESUME 4.0±0.05V/Cell)
OVER DISCHARGE DETECTION:	2.75±0.05V/Cell (2sec. DELAY, RESUME 3±0.05V/Cell REMOVE LOAD & CHARGING CURRENT)
OVER CURRENT DETECTION:	4.0A to 6.0 A (Protection delay 2 seconds, recovery condition disconnect load or charge)

### 3. AMBIENT CONDITIONS

#### TEMPERATURE RANGE:

CHARGE:	0 TO +45°C
DISCHARGE:	-20 TO +55°C
CHARGE RETENTION/STORAGE [%]:	≤1 MONTH AT -20°C TO +45°C >80%
	≤3 MONTHS AT 0°C TO +30°C >80%
	≤6 months at 20°C ±5°C >80%
	60 ±25%RH

#### BATTERY STORAGE MAINTENANCE INTERVAL

HUMIDITY:	(FOR BATTERIES STORED AT APPROX. 40% STATE OF CHARGE) Every 3 months @ -20°C TO 25°C Every 1 month @ -20°C TO 60°C 45% - 75% RH
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<https://www.globtek.com/ds/JB8c5JmMhos/GSQtxq2sedy.html>

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## 4.ENVIRONMENTAL AND SAFETY

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

## 5. RECOMMENDED CHARGING SOURCE SPECIFICATION:

CHARGING SOURCE INPUT VOLTAGE:

19-27 V from GlobTek Power supply designed to match this battery pack.

CHARGING SOURCE INPUT CURRENT:

1000mA

## 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

Cell designation: IEC 61960, marking: 4INR19/66-2

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## DERATING CURVE

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## INPUT CONFIGURATION



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## Approvals

Logo	
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