GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cel Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

In Addition to GlobTek Inc.'s renewed ISO9001:2015 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2016 - Medical Devices Quality Management System Certification ISO14001:2015 - Environmental Management System Certification

ISO Certificates are available online at https://www.globtek.com/iso-certificates/

By customer signing or accepting this document, they agree to acknowledge, constantly monitor, and accept the Guidelines and cautions, Safety Notes, and Safety Precautions published on GlobTek's website https://www.globtek.com/safety-cautions/

GlobTek offers a 5-year warranty on workmanship and electrical components assembly on all new battery pack products excluding the battery cells themselves which are covered by the Manufacturer's original warranty at their published warranty period. Please refer to the manufacturer's manufacturer's warranty policy for cells. For GlobTek brand cells, GlobTek provides a 12-month warranty for Li-lon batteries. The warranty period is based upon the expectation that the battery will deliver 80% of its initial capacity after 300 cycles at low to moderate power loads. High power loads may cause a battery to reach 80% of initial capacity in less than the 12-month warranty period. Li-lon batteries will continue to operate below the 80% capacity threshold; however, the capacity (run time) delivered between charges will continue to decrease.

The purchaser of GlobTek battery pack products (Customer) agrees that they are a "Sophisticated user" who understands battery technology and that it is their sole responsibility to determine suitability of the product described for their application and to take precautions for protection against any hazards attendant to the handling and use of the product. GlobTek products are only designed for professional use and integration by companies into their products and may not be used by consumers directly. GlobTek provides batteries and battery packs as a component of an end system.

The acceptance of GlobTek specifications, the information on this page and use of the product(s) described in this or other GlobTek documents indicate that the product was qualified for use (tested and/or sample waiver signed), and the acceptance and binding of the customer to GlobTek TERMS AND CONDITIONS (attached to the end of this document), which supersede all other agreements, terms and conditions https://www.globtek.com/terms-and-conditions/

Lithium Ion batteries are inherently dangerous. Continuous usage or charging without allowing the battery to discharge is a hazard.

FIRE HAZARD: This like all Li-lon battery packs must be regularly discharged and charged. it is not recommended to be kept on permanent full charge and in a full state of charge.

#### Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies/battery packs if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

## Limitation of Use:

GlobTek products are intended for use with commercial, medical, and/or industrial equipment only. GlobTek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of GlobTek Inc. Contents of this document are subject to change without prior notice.

## Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete order processing. A delay in receipt of this form will delay delivery schedule.

Company Name:	Customer P/N:
Quote Number:	Date:
Authorized Representative Name:	Authorized Representative Signature:

GlobTek, Inc. www.globtek.com	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cel Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
186 Veterans Drive, Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

# **REVISION HISTORY**

REV	DESCRIPTION	SUB	DATE	APPROVED
В	Update wire from UL1007, 22*2 to UL3239, 24*2, length 130±3mm	QA	02/08/2023	QA
Α	Initial release	DR	04/08/2022	DAVID

## **BATTERY PACK INFORMATION**

TYPE	Battery Cylindrical Can
TECHNOLOGY	Battery Li-lon
PACK ID	None
PROTECTION MODULE (PCM):	
PACK NOMINAL VOLTAGE (V)	3.60
PACK RATED CAPACITY (mAh)	3350.00
WATT-HOUR RATING (Wh)	12.06
INGRESS PROTECTION:	IPx0
LABEL SPECS	label BL3500C1865001S1PCCTJS2,L-1655
SPECIAL BARCODE LABEL MATERIAL	No
USER MANUAL	
PACK SPEC	packing for battery BL3500C1865001S1PCCTJS2

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec) DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE Mechanical configuration for this item: -130±3 P1:Red (P+) P2:Black (P-)

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B

ELECTRICAL SPECIFICATIONS	
GENERAL SPECIFICATION:	
BATTERY WITH SAFETY CIRCUIT AND PLASTIC HOUSING	
CELL:	LR1865HB
PCM:	GLOBTEK STANDARD+PTC:JK-P260 2.6A 16V
NTC:	N/A
ID:	N/A
CONFIGURATION:	1S1P
WEIGHT:	APROX 45 G
2.ELECTRICAL SPECIFICATION FOR PACK:	
RATED CAPACITY:	3350 mAh
NOMINAL VOLTAGE:	3.6V
WATT-HOUR RATING:	12.06Wh
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
MAX. CHARGE VOLTAGE [V]:	4.2V Max (4.1V Max recommended for maximizing life and health of
INDUCTION OF THE PARTY.	battery cells and preventing premature failure)
CHARGE CURRENT:	0.3C recommended, 0.5C Maximum. For a deeply discharged cell with a
	voltage of 3.0V or less, a pre-charge current equal to or less than 0.1C is
	highly recommended.

GlobTek, Inc. www.globtek.com		with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 m x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires.
186 Veterans Drive, Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C186500	01S1PCCTJS2 Rev B
RECOMMENDED C	:HARGE CUT OFF:	When charge rate falls to 10% of bulk charge or by secondary charge termination such as a Timer as specified by customer which best suits the application and charging method to be used.
MAX. CONTINUOUS	S DISCHARGE CURRENT:	2A
RECOMMENDED D	DISCHARGE CUT OFF:	3.0v. GlobTek recommends a customer system level permanent fail protection if the cell voltage drops to 2.50V
INTERNAL IMPEDA	NCE:	≤220 MΩ
EXP CYCLE LIFE:		>500 CYCLES > 70% OF INITIAL CAP (0.5C/0.5C)

GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cel Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

CELL PROTECTION:	
OVER CHARGE DETECTION:	4.25 ±0.03V
	(0.8 TO 1.2 SEC. DELAY, RESUME 4.19±0.03V)
OVER DISCHARGE DETECTION:	2.80 ±0.05V
	(130 to 160msec. DELAY, RESUME 3.0±0.05V)
OVER CURRENT DETECTION:	4.0A to 7.0A (8 to 15msec. DELAY)
PRECONDITIONED AT THE FACTORY	YES
3. AMBIENT CONDITIONS TEMPERATURE RANGE:	
CHARGE:	0 TO +45°C
DISCHARGE:	-10 TO +60°C
CHARGE RETENTION/STORAGE [%]:	1 YEAR AT -20 TO +20°C >80%
	3 MONTHS AT -20 TO +45°C >80%
	1 MONTH AT -20 To +60°C >80%
HUMIDITY:	60 ±25%RH
4.ENVIORMENTAL AND SAFETY	
Please review quarterly and follow HANDLING AND SAF	ETY PRECAUTIONS FOR Lilon & LiPolymer.

GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell In Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

5. CELL REGULATORY APPROVALS:	
5. CELL REGULATORY APPROVALS:	
UL: U	IL1642
IEC 61960 Cell designation and marking:	
	INR19/66
<u>-</u>	
TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BE/ GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/	
FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER A	T: https://r.globtek.info/3QeaqtD
INGRESS PROTECTION: IPx0	

GlobTek, Inc.
www.globtek.com
186 Veterans Drive,
Northvale, NJ 07647
Tel. (201) 784-1000
Fax (201) 784-0111

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B

Model	Image	Mechanical Drawing	Туре
BL3500C1865001S1PCMK		102 % C	1S1P 1 CONNI
BL3500C1865001S1PCMK***			1S1P 1
BL3500C1865001S1P*S****			1S1P 1
BL3500C1865001S1P*C****			1S1P 1 CUSTO
BL3500C1865001S1P*P****			1S1P 1 be cust
BL3500C1865001S1P*WN***			1S1P 1

GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

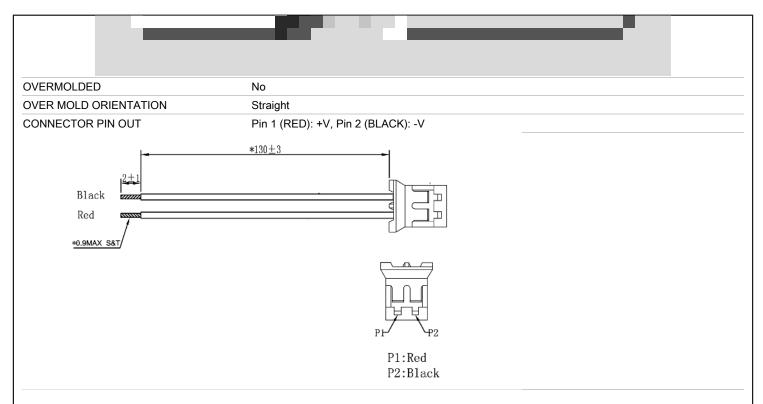
OUTPUT CORD AND CONNECTO	DR: PHR2/C65831
	S, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW
CABLE TYPE	UL3239
CABLE LENGTH (mm)	130
CABLE TOLERANCE (mm)	±3.0
WIRE GAUGE (AWG)	24
CONDUCTORS	2
HANK DIMENSION (mm)	
	DLOR Cable: Black and Red; Connector: Black
PLUG TYPE	JST PHR-2 CONN HOUSING PH 2POS 2MM WHITE OR EQUAL
DUTPUT CONNECTOR GENDER	Female

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B



ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT <a href="https://www.globtek.com/connectors/">https://www.globtek.com/connectors/</a>
STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT <a href="https://www.globtek.com/connectors/">https://www.globtek.com/connectors/</a>
CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: <a href="https://en.globtek.com/output-cable-regulation-calculator/">https://en.globtek.com/output-cable-regulation-calculator/</a>

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

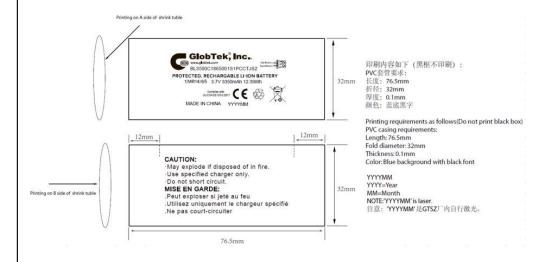
Rev B

LABEL:L-1655	
LABEL P/N	label BL3500C1865001S1PCCTJS2
MATERIAL	Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case
BACKGROUND COLOR	Black if housing is Black, White or Silver if housing is White or Gray.
TEXT COLOR	White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is White or Gray.
SPECIAL BARCODE LABEL MATERIAL	No

Below is the minimum information which will appear on the label. NOTE: in the logo area additional/actual positioning of symbols and text is subjected to change as per agency updates/requirements or additional model approvals become available.

Regulatory certifications/label markings may be in logo area on the label or molded into the case housing outside the label area.

Information will be shown via label and/or pad printed and/or molded and/or laser engraved in the case. \* Date code markings at GlobTek option



B=P/N: (料号) BL3500C1865001S1PCCTJS2 C=Model (型号) Battery Li-Ion Cylindrical

E=Output (输出)Pack Nominal Voltage 3.60 (V), Pack Rated Capacity 3350.00 (mAh), Watt-Hour Rating 12.06 (Wh)

GlobTek, Inc.
www.globtek.com
186 Veterans Drive,
Northvale, NJ 07647
Tel. (201) 784-1000
Fax (201) 784-0111

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B

AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/BL3500C1865001S1PCMK/
CE EC-Declaration for Medical	Contact GlobTek for more information
CE EC-Declaration for Industrial/Commercial/ITE	Contact GlobTek for more information
CE EC-Declaration for Household	Contact GlobTek for more information
UKCA-Declaration for Medical	Contact GlobTek for more information
UKCA-Declaration for Industrial/Commercial/ITE	Contact GlobTek for more information
UKCA-Declaration for Household	Contact GlobTek for more information
Morocco SDoC Declaration	https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a0O3a00000MnSxJEAV
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01t3a000005KryVAAS
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf
Prop 65 Statement	https://en.globtek.com/prop-65-statement.pdf
IDVV rating is based on 3rd party testing	and quatermore should shock quitability and test system level IDVV rating before ordering

IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.

# Regulatory Certifications/Label Markings

Below follows a link to the latest regulatory certifications and marks for this specific product. National standards as well as certification schemes are constantly changing and so is the set of certification marks and symbols applicable to this product. Various standards, marks and symbols, and certificates are subject to change at any time without notice.

Additional standards or unique country certifications are available upon request. Please contact Globtek to request a quotation.

LATEST PRODUCT/MODEL

https://www.globtek.com/datasheet/w121546 **CERTIFICATIONS:** 

AGENCY ONLINE DOCUMENTS http://www.globtek.info/certs/BL3500C1865001S1PCMK/

### **TOP VIEW**



P1:Red P2:Black Pin 1 (RED): +V, Pin 2 (BLACK): -V

GlobTek, Inc. www.globtek.com	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Ce Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Model No. Battery Li-Ion Cylindrical	
	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

PACKAGING	
Packing Spec P/N	packing for battery BL3500C1865001S1PCCTJS2
Box Qty	128
Gift Box Size (mm)	32x40x92
Gift Box Color	White
Master Carton Size (mm)	165 x 335 x 375
Master Carton Cubic Volume (m³)	0.02
Master GW (Kg)	kg
BLADES INCLUDED	:
BLADE/CORD INSTALLED	
USER MANUAL*	
USER MANUAL WEB LINK	

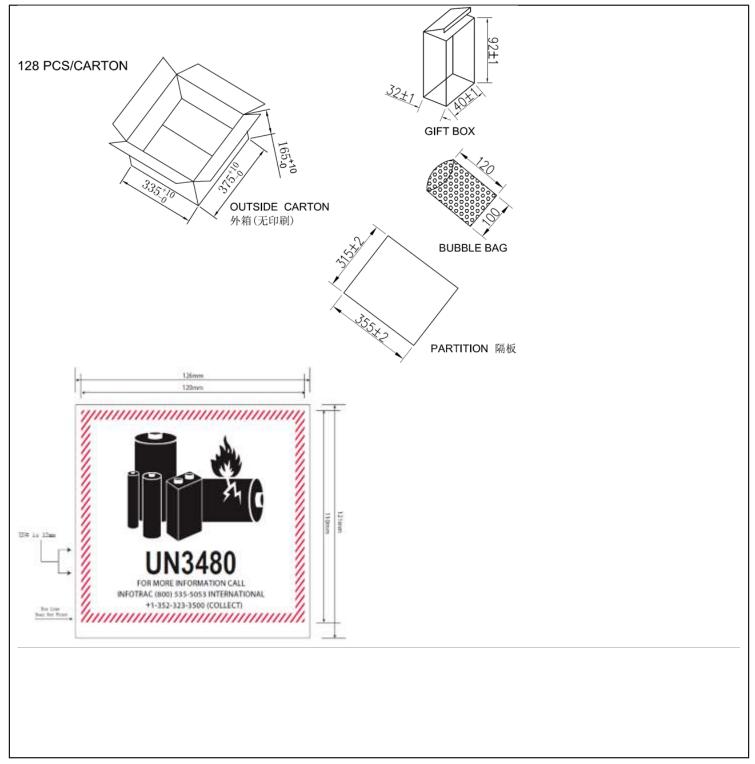
<sup>\*</sup> This specification sheet is considered the user manual for all applications. It is expected that the buyer of this product will use it to formulate their own user manual for their end product and a user manual specifically for the power adapter is not usually required. If a user manual is not specifically listed above then none will be provided with this unit.

Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.

Model No. Battery Li-Ion Cylindrical

Part No./Ordering No. BL3500C1865001S1PCCTJS2

Rev B



GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Ce Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Strippe Outer Configuration: Shrink Wrap.	
Northvale, NJ 07647	Model No. Battery Li-Ion Cylindrical	
Tel. (201) 784-1000 Fax (201) 784-0111	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B

## INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

It is the responsibility of the OEM systems engineer to provide the end system user instructions and warnings for the use of this product in the end system.

If an input cord is required for this product, AC Mains voltage should be provided to the power supply by a power supply cord approved to the

national standards of the country in which it will be used.
This product is not designed to be repaired. No serviceable parts inside. A blown internal fuse is an indication of catastrophic failure of circuit component(s). If a Failure Analysis is required for a failed power supply/battery charger, please return the damaged unit to GlobTek for an accurate determination of the root cause of the failure.
EMC Compliance of the complete OEM product, including the GlobTek power supply/battery charger needs to be verified by the OEM systems engineer.
INSTRUCTION SHEET

GlobTek, Inc. www.globtek.com	Drawing Title: Lithium Ion Prismatic Battery Pack with Protection circuit. Cell Type: 18650; Pack Rating: 3.7V at 3.5Ahr. Pack Configuration: 1 Cell in Series and 1 Cell in Parallel; Pack Dimension: 18.6mm x 18.6mm x 70.3mm. Output Configuration: (2) UL3293 x 22awg x Black: 38mm; Red: 44.5mm x Stripped & tinned Wires. Outer Configuration: Shrink Wrap.	
186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Model No. Battery Li-Ion Cylindrical	
	Part No./Ordering No. BL3500C1865001S1PCCTJS2	Rev B
<u></u>		