

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

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-Ion 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-Ion 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-Ion 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:

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	Model No. Battery Li-Ion Cylindrical		
	Part No./Ordering No. BL3500C1865001S1PCCTJS2		Rev B

REVISION HISTORY

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

BATTERY PACK INFORMATION

TYPE	Battery Cylindrical Can
TECHNOLOGY	Battery Li-On
PACK ID	None
INCLUDES PROTECTION MODULE	
PROTECTION MODULE (PCM):	
CELL SIZE	
CELL CONFIGURATION	
PACK NOMINAL VOLTAGE (V)	3.60
PACK RATED CAPACITY (mAh)	3350.00
WATT-HOUR RATING (Wh)	12.06
MAXIMUM CONTINUOUS CURRENT (A)	
INTERNAL IMPEDANCE	≤220.00mΩ
INTERNAL IMPEDANCE (per cell)	220.00mΩ
PACK WEIGHT (g)	0.00
INGRESS PROTECTION:	IPx0
LABEL SPECS	label BL3500C1865001S1PCCTJS2,L-1655
SPECIAL BARCODE LABEL MATERIAL	No
USER MANUAL	
PACK SPEC	packing for battery BL3500C1865001S1PCCTJS2

PROPRIETARY INFORMATION

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Model No. Battery Li-Ion Cylindrical

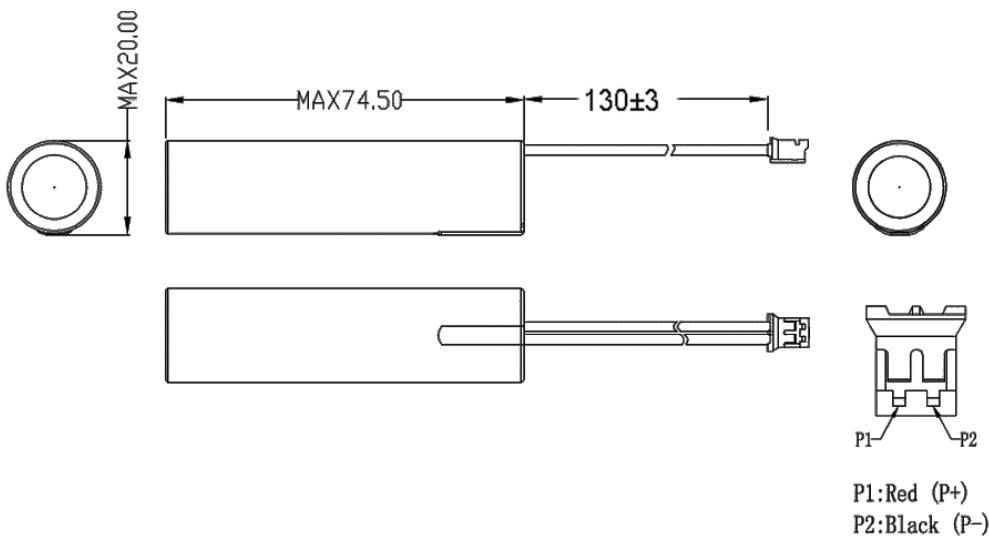
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Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec)

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE

Mechanical configuration for this item:



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ELECTRICAL SPECIFICATIONS

General Pack Specification:

Description:	Lithium-ion battery pack with SMBus-compatible battery management system (BMS)
Includes Built-In Charger:	No
Includes Safety Protections	Yes
Includes Fuel Gauge	Yes, via SMBus
BMS Details:	ICs: SH366002 + HY2113 + HY2115 PCB: 500-12011920(R)
Cell configurations for which this electrical specification applies:	1s1p

Definitions of nomenclature:	The abbreviation (# 'p') is the "# of parallel strings" (i.e. the "Y" in XsYp) The abbreviation (# 's') is the "# of series cells in each string" (i.e. the "X" in XsYp)
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Cell Specifications

Cell P/N:	LR2170SD
Nominal cell capacity:	5000mAh [Per cell manufacturer spec, 4.2V - 2.5V discharge, 0.2C, +25°C]
Initial internal impedance:	30mΩ (max.)
Cell approvals:	UL1642

Charge Specifications

Compatible Charging Method:	Constant current (CC) + constant-voltage (CV)
SMBus Smart Charger Compatible (SBS)	Yes, pack suggests charging parameters based on measured pack temperature and SoC (SBS compatible chargers only)
CC Current:	0.375A (0°C to +10°C) 1.00A (+10°C to +45°C) [Maximum recommend values & SMBus ChargingCurrent() defaults]
CV Voltage:	4.125V [Maximum recommended value & SMBus ChargingVoltage() default]
Pre-Charge Current:	0.375A When charging, if any cell's voltage is <2.70V, the charger should supply 0.075C [0.375A • (# 'p')] or less, until all cells are ≥2.70V
Charge-Termination Current:	[Maximum recommend values & SMBus ChargingCurrent() defaults] 0.05C [0.250A • (# 'p')]

Discharge Specifications

Maximum Continuous Discharge Current:	5.0A
Usable Discharge Capacity (typ.):	4500mAh • (# 'p') [4.125 - 2.8V discharge @ 0.2C]
Cycle Life (typ.):	750 cycles [≥ 70% of 1st cycle capacity, [4.125 - 2.8V, 0.2C charge / 0.2C discharge, +25°C]

Environmental

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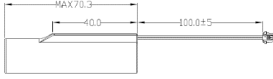

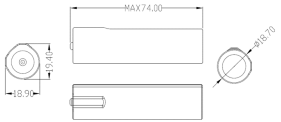

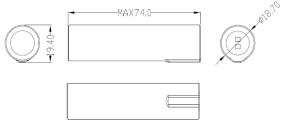

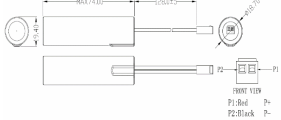

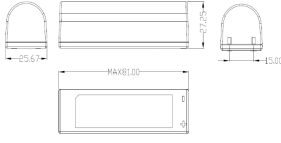

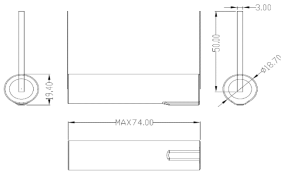
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Ambient Temperature Range (in Charge):	0°C to +45°C
Ambient Temperature Range (in Discharge):	-20°C to +45°C
Humidity:	0 - 85% RH
Atmospheric Pressure:	86 - 106kPa
	Maintain SoC between 30 - 50%
	-20°C to +50°C 0 - 70% RH
Storage:	Suggested maintenance charge intervals: Every 3 months at -20°C to 25°C Every 1 month at -20°C to 50°C
Handling:	Please follow GloTek, Inc. HANDLING AND SAFETY PRECAUTIONS FOR Li-Ion & Li-Polymer.
<u>Recoverable Protection Parameters</u>	
Over-Voltage in Charge:	Trip: 4.25V ± 0.05V (any cell) Release: 4.05V ± 0.05V (any cell) Trip delay: 1s (typ.)
Under-Voltage in Discharge:	Trip: 2.80V ± 0.05V (any cell) Release: 2.80V ± 0.05V (any cell) Trip delay: 120ms (typ.)
Over-Current in Charge:	Delay 8ms(typ.) 3.5A (min.), 5.0A(max.)
Over-Current in Pre-Charge (typ.):	N/A
Under-Temperature in Charge (typ.):	N/A
Over-Current in Charge:	Delay 8ms(typ.) 5.2A (min.), 7.0A(max.)
Over-Temperature in Discharge (typ.):	N/A
Under-Temperature in Discharge (typ.):	N/A
<u>Non-Recoverable (Permanent Fail) Protection Parameters</u>	
Method of deactivation:	N/A
Permanent Over-Voltage in Charge:	N/A
Permanent Over-Voltage in Charge (Standalone backup IC):	N/A
Permanent Under-Voltage in Discharge (typ.):	N/A
Permanent Over-Current in Charge (typ.):	N/A
Permanent Over-Current in Discharge (typ.):	N/A

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Mechanical drawing

Model	Image	Mechanical Drawing	Type
BL3500C1865001S1PCMK			1S1P 18650 CELL + WIRES + MOLEX CONNECTOR
BL3500C1865001S1PCMK***			1S1P 18650 CELL + Button top and contact
BL3500C1865001S1P*S***			1S1P 18650 CELL + Solder tab
BL3500C1865001S1P*C***			1S1P 18650 CELL + WIRES AND CUSTOMER SPECIFIC CONNECTOR
BL3500C1865001S1P*P***			1S1P 18650 CELL + Plastic enclosure (may be customized)
BL3500C1865001S1P*WN***			1S1P 18650 CELL + 2 welded insulated tabs

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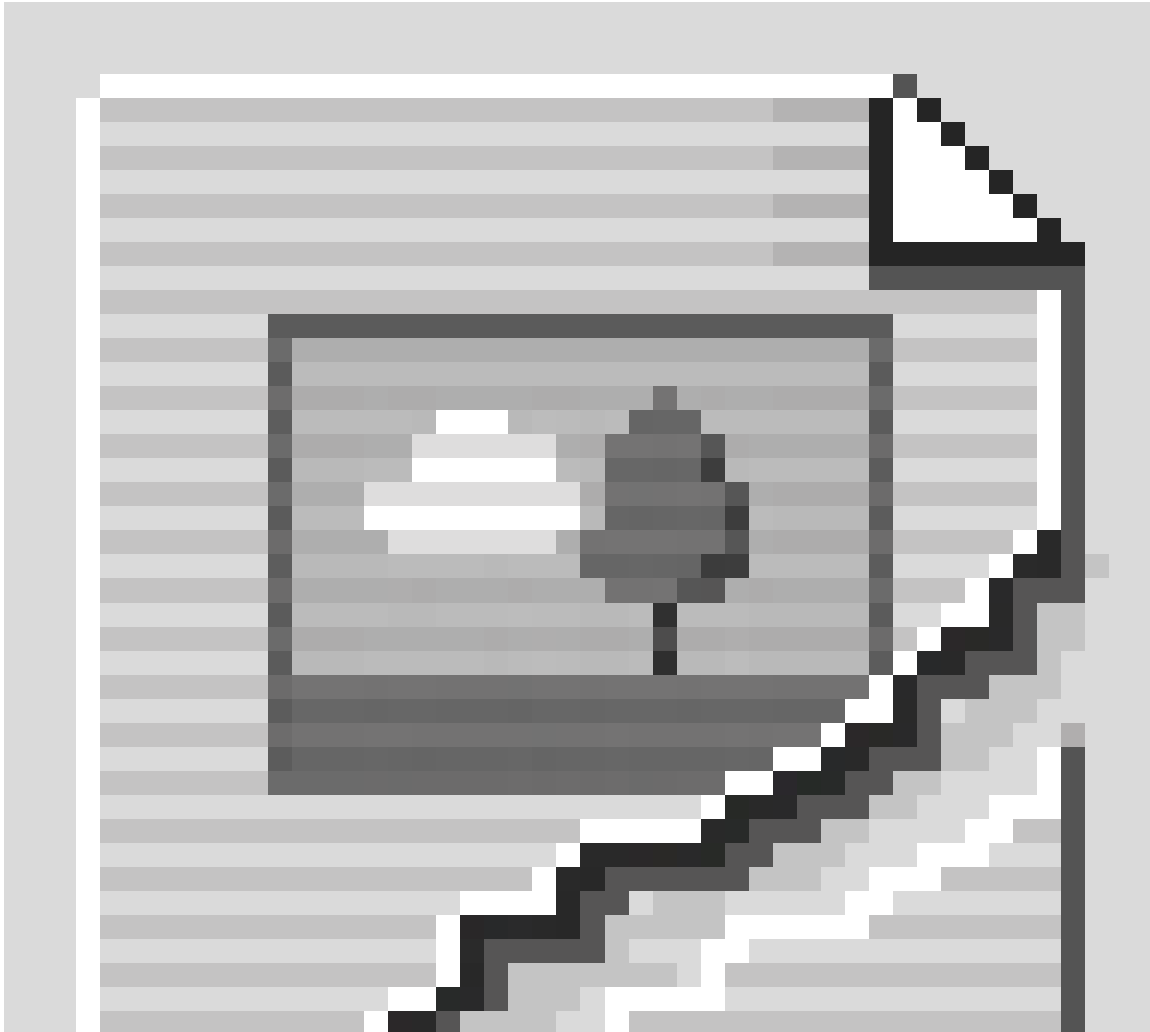
Rev B

OUTPUT CORD AND CONNECTOR: PHR2/C65831

ACTUAL CONNECTORS, OVERMOLDS, 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)	
CABLE / CONNECTOR OVERMOLD COLOR	Cable: Black and Red; Connector: Black
PLUG TYPE	JST PHR-2 CONN HOUSING PH 2POS 2MM WHITE OR EQUAL
OUTPUT CONNECTOR GENDER	Female

STANDARD CONNECTOR HOUSINGS



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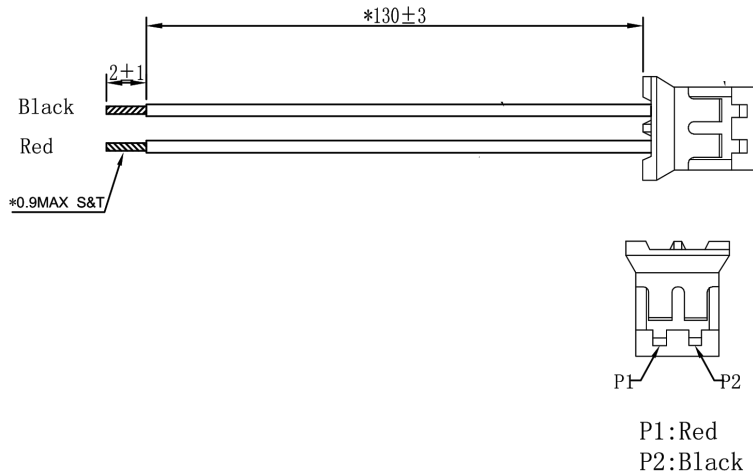
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OVERMOLDED	No
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT	Pin 1 (RED): +V, Pin 2 (BLACK): -V



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

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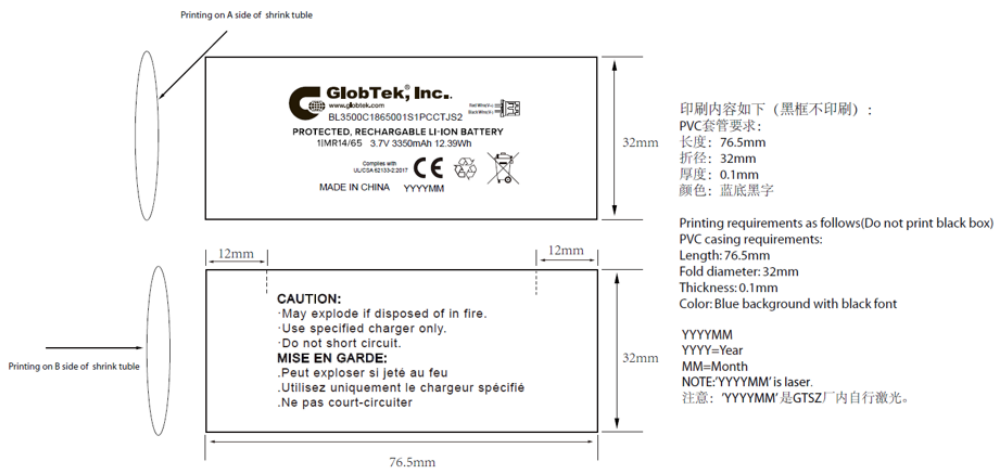
LABEL:L-1655

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



A=
 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/Hr), Watt-Hour Rating 12.06 (Wh)

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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=a003a00000MnSxJEAV
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

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

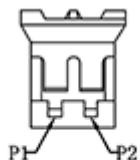
Regulatory Certifications/Label Markings

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 CERTIFICATIONS:	https://www.globtek.com/datasheet/w121546
AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/BL3500C1865001S1PCMK/

TOP VIEW



Pin 1 (RED): +V, Pin 2 (BLACK): -V

P1: Red
P2: Black

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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 (m ³):	0.02
Master GW (Kg):	kg
BLADES INCLUDED:	:
BLADE/CORD INSTALLED:	:
USER MANUAL*:	
USER MANUAL WEB LINK:	

* 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.

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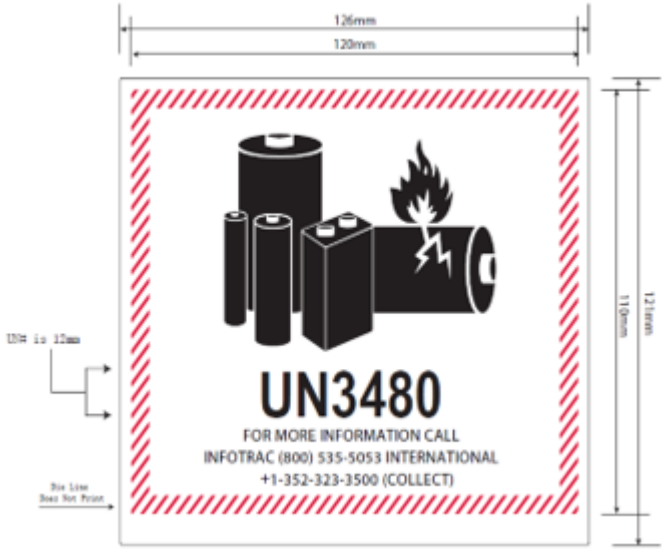
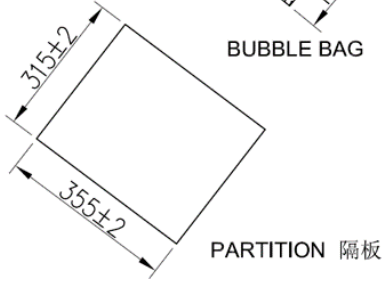
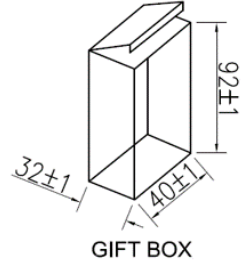
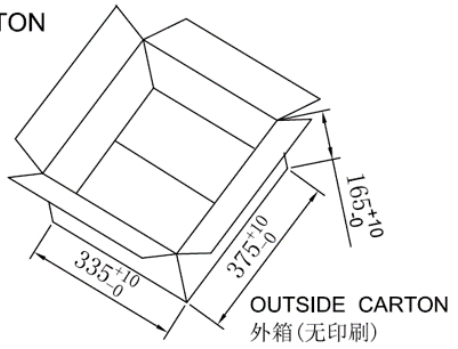
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INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

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.
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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

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