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REVISION HISTORY

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	27084	5/9/2018	DR
B	Update cell from Globtek ICR16340 to CR123A; add cell protection PCM specifications.	SV	27107	6/18/2018	DR

See Page 2 for important battery warranty and usage information.

Foot Note:

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

Limitation of Use:

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

RELEASED
By N.Frost at 10:52 am, Jun 18, 2018

 **GlobTek, Inc.**
www.globtek.com

186 Veterans Drive, Northvale, NJ 07467
Tel. 201-784-1000 Fax 201-784-0111

Drawing Title: Li-Ion Cylindrical Battery

3.7 Volts @ 650mAh

Model No. : CR123A

Part No.: BL0650C1634001S1PCBM

Rev. B

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By customer signing or accepting this document, they agree to acknowledge and accept the **Guidelines and cautions, Safety Notes, and Safety Precautions published on GlobTek's website** http://en.globtek.com/safety-cautions.php#.UUD-NRzU_I8

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 this product (Customer) agrees 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. Products sold are not returnable. GlobTek, Inc. will produce or provide its products to our published specifications. The purchaser of this product (Customer) shall be solely responsible for determining the products' fitness for use in their applications.

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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1.GENERAL SPECIFICATION:

CELL:	CR123A
PCM:	N/A
NTC:	N/A
ID:	N/A
CONFIGURATION:	Single Cell
WEIGHT:	About 17 grams

2.ELECTRICAL SPECIFICATION FOR PACK:

RATED CAPACITY:	650mAh
NOMINAL VOLTAGE:	3.7 Volts
WATT-HOUR RATING:	2.4 Wh
CHARGING METHOD:	Constant current charge to 4.2V, then constant voltage charge until charge $\leq 20\text{mA}$
MAX. CHARGE VOLTAGE [V]:	4.2 V
CHARGE CURRENT:	Standard 0.2C
REC. CHARGE CUT OFF:	0.02C
MAX. CONTINUOUS DISCHARGE CURRENT:	1.0C
REC. DISCHARGE CUT OFF:	2.80 V
EXP. CYCLE LIFE:	>300 cycles > 80% of standard capacity

CELL PROTECTION:

Over Charge Detection:	4.25 \pm 0.025V (1 \pm 0.3sec. Delay; resume 4.05 \pm 0.050V)
Over Discharge Detection:	2.50 \pm 0.062V (20 \pm 6.0msec. Delay; resume 3.0 \pm 1.0V)
Over Current Detection:	2A to 6A (delay 12 \pm 4msec; cut load to release)

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0 to +45°C
DISCHARGE:	-20 to +60°C
CHARGE RETENTION/STORAGE [%]:	< 1 year at -20 to +30°C < 3 months at -20 to +40°C <1 month at -20 to +45C
HUMIDITY:	20 \pm 5C RH

4.ENVIRONMENTAL AND SAFETY

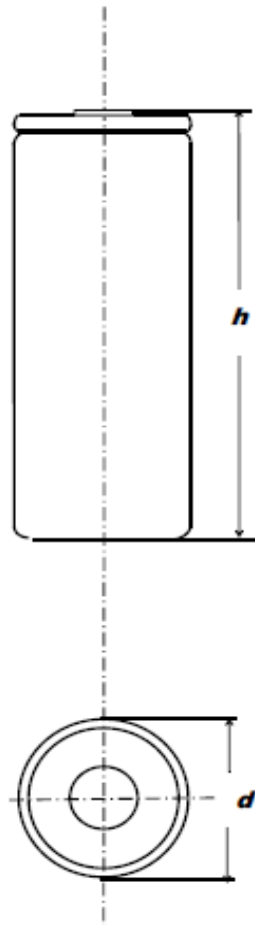
PLEASE FOLLOW GlobTek, Inc. HANDLING AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.

5. CELL REGULATORY APPROVALS:

UL:	UL1642



6. MECHANICAL:



Items	Description	Dimension
H	Height	34±0.5mm
D	Diameter	16.5±0.2mm

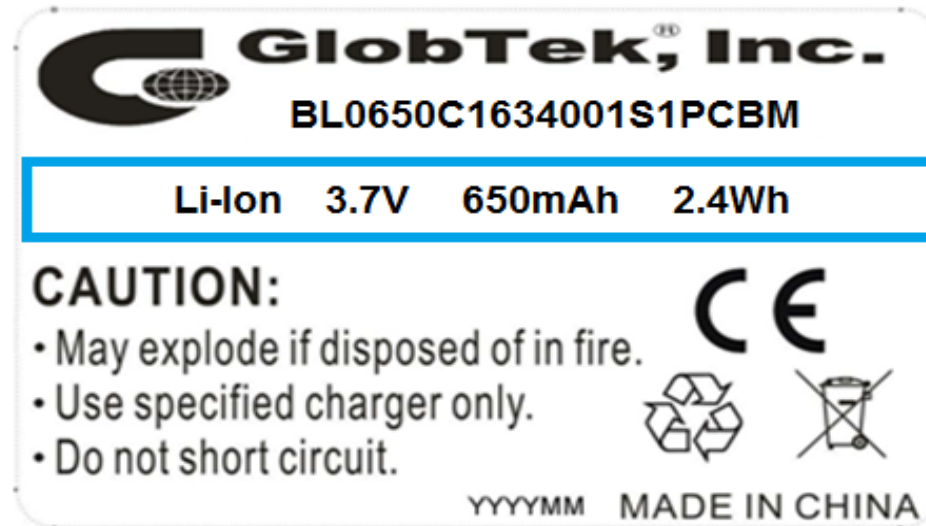
[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)
[STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK](#)

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7. LABEL:

MATERIAL:	TBD
BACKGROUND COLOR:	WHITE
TEXT COLOR:	BLACK
LABEL WIDTH: (mm)	TBD
LABEL HEIGHT: (mm)	TBD
ADDITIONAL REQUIREMENTS:	N/A

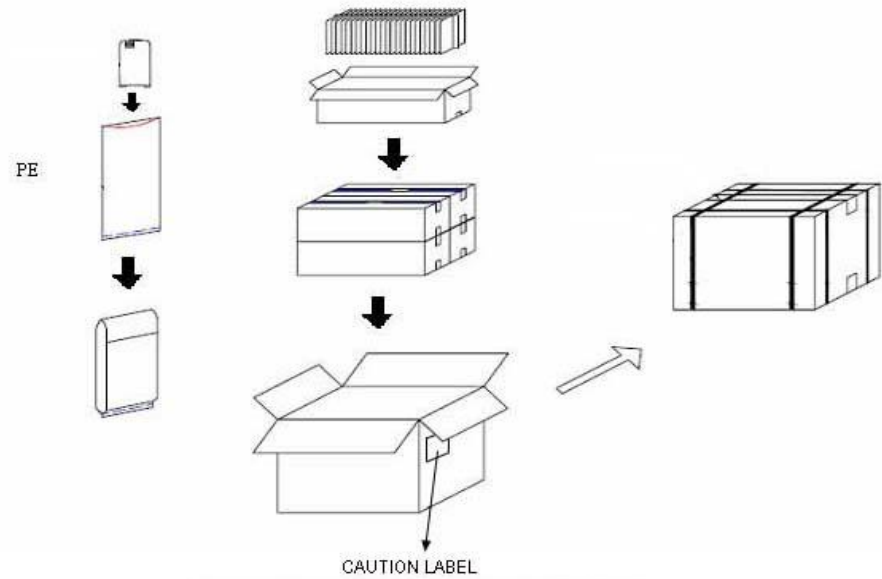


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8. PACKAGING:

PE BAG SIZE	TBD
CARTON SIZE:	TBD
QUANTITY PER CARTON:	TBD
G.W.	TBD



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