

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

REVISION HISTORY


REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	27386	7/3/2019	DR

See Page 2 for important battery warranty and usage information.

PRELIMINARY SPECIFICATION

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 pudxc at 9:42 am, Jul 09, 2019

 GlobTek, Inc. www.globtek.com	Drawing Title: Li-Ion Cylindrical Battery	
	3.7 Volts @ 4800mAh	
186 Veterans Drive, Northvale, NJ 07467 Tel. 201-784-1000 Fax 201-784-0111	Model No. 21700 (1ICR21/71)	
	Part No.: BL4800C2170001S1PCAS	Rev. A

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

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.

The acceptance of this specification and use of the product described in this document indicates the acceptance and binding of the customer to Globtek terms and conditions, which supersede all other agreements, terms and conditions (<http://en.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.

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

186 Veterans Drive, Northvale, NJ 07467

201-784-1000 Fax 201-784-0111

Tel.

Drawing Title: Li-Ion Cylindrical Battery

3.7 Volts @ 4800mAh

Model No: 21700 (1ICP21/71)

Part No.: BL4800C2170001S1PCAS

Rev. A

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

1. GENERAL SPECIFICATION:

BATTERY WITH SAFETY CIRCUIT

CELL:	Samsung 21700-48G
PCM:	TBD
NTC:	N/A
ID:	N/A

CONFIGURATION:	1S1P
----------------	------

2. ELECTRICAL SPECIFICATION:

RATED CAPACITY:	4800mAh(Typ)
NOMINAL VOLTAGE:	3.7V
WATT-HOUR RATING:	17.76Wh
CHARGING METHOD:	Constant Current/Constant Voltage
MAXIMUM CHARGE VOLTAGE [V]:	4.2V/cell (Recommended 4.1V±1%/cell)
CHARGE CURRENT:	0.33C (typical); 1.0C (maximum)
RECOMMENDED CHARGE CUT OFF:	By current 0.02C or timer approx. 6.0hours
MAXIMUM CONTINUOUS DISCHARGE CURRENT:	2C
RECOMMENDED DISCHARGE CUT OFF:	3.0V/cell
INTERNAL IMPEDANCE:	TBD
EXPECTED CYCLE LIFE:	>500 cycles > 80% of initial capacity (charge CC 0.3C to 4.2V; discharge 1.0C to 3.0V)
CELL PROTECTION:	
OVER CHARGE DETECTION VOLTAGE:	4.30 ±0.05Volts (typical delay 70msec., resume 4.1 ±0.05V)
OVER DISCHARGE DETECTION VOLTAGE:	2.40 ±0.1Volts (typical delay 35msec., resume 3.0±0.1V)
OVER CURRENT DETECTION CURRENT:	13A - 15A (typical delay 6msec., release condition cut load)

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0°C to +50°C
DISCHARGE:	-20°C to +60°C
CHARGE RETENTION/STORAGE [%]:	≤1 year at -20°C to +25°C (≥90% capacity) ≤3 months -20°C to 45°C (≥90% capacity) ≤1 months -20°C to 55°C (≥90% capacity)
HUMIDITY:	60±25%RH

4. ENVIRONMENTAL AND SAFETY

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

5. CELL REGULATORY APPROVALS:

UL:	Designed to meet UL1642
-----	-------------------------

6. BATTERY PACK APPROVALS:

RoHS:	COMPLIES WITH EU 2002/95/EC AND CHINA SJ/T 11363-2006
CE Mark:	COMPLIES WITH 2004/108/EC ELECTROMAGNETIC COMPATIBILITY INCLUDING BUT NOT LIMITED TO EN61000-6-1:2007, EN61000-6-3:2007
TRANSPORTATION:	Designed to meet UN38.3
Safety:	Designed to meet UL 2054, IEC61960:2003, IEC 62133,
UL:	Design to meet UL2054, IEC62133



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 @ 4800mAh	
Model No. 21700 (1ICR21/71)	
Part No.: BL4800C2170001S1PCAS	Rev. A

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

8. MECHANICAL:

DIMENSIONS:	21.80mm * 72.50mm (Max)
SHRINK WRAP:	PVC
WIRE TYPE:	UL1007 AWG #22
WIRE LENGTH:	TBD
Wire Polarity:	VBatt Red (+)
Wire Polarity:	GND Black (-)

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

 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 @ 4800mAh

Model No. 21700 (1ICR21/71)

Part No.: BL4800C2170001S1PCAS

Rev. A

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

7.CONNECTOR:

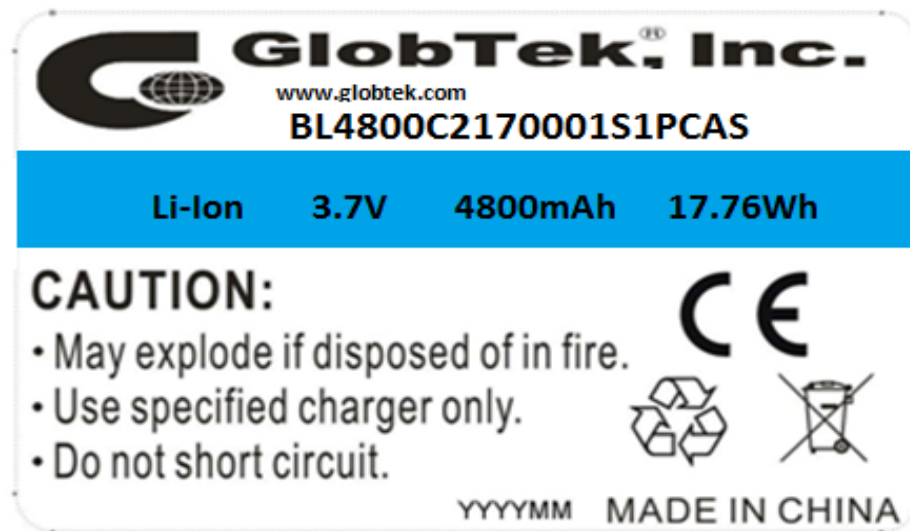
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW

	EQUIVALENT	Y / N
Plug Type	Y	TBD
Terminal	Y	TBD

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

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



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 @ 4800mAh

Model No. 21700 (1ICR21/71)

Part No.: BL4800C2170001S1PCAS

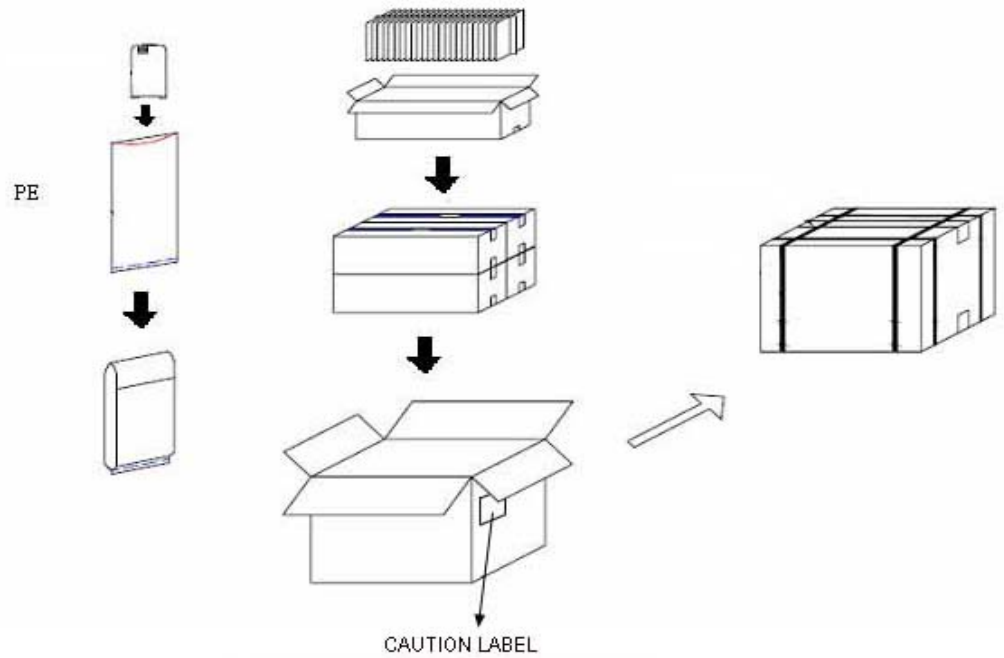
Rev. A

PROPRIETARY INFORMATION:

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

9. PACKAGING:

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



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 @ 4800mAh

Model No. 21700 (1ICR21/71)

Part No.: BL4800C2170001S1PCAS

Rev. A