

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	BS	25754	12/23/14	HM
B	Correct battery type from prismatic to polymer, update cell protection specifications, update drawing, add staggered lead lengths and strip/tin specifications	BS	25839	3/17/2015	HM
C	Add (Recommended 4.1V/cell) to Max. Charging Voltage, change capacity rating to 1050mAh (typical), change Watt-Hour Rating to 3.89WH, update label to show Li-Ion 3.7V 1050mAh 3.89Wh, add IEC Designation Code to Model No.	SV	27497	1/29/2020	DR
D	Update wire termination to 100mm±1mm	SV	27500	2/4/2020	DR

See Page 2 for important battery warranty and usage information.

RELEASED

By pudxc at 11:18 am, Feb 04, 2020

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

 GlobTek®, Inc.
www.globtek.com

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

Drawing Title: Li-Ion Polymer Battery with Protection Circuit

3.7 Volts @ 1050mAh

Model No.: GP404852 (1ICP4/45/47)

Part No.: BL1200P4054481S1PCAC

Rev. D

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

Tel. 201-784-1000 Fax 201-784-0111

Drawing Title: Li-Ion Polymer Battery with Protection Circuit

3.7 Volts @ 1200mAh

Model No.: GP404852 (1ICP4/45/47)

Part No: BL1200P4054481S1PCAC

Rev. D

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:	GlobTek GP404852
PCM:	G3J/8205A
NTC:	10K
ID:	N/A
CONFIGURATION:	1S1P
WEIGHT:	Approximately 30grams

2. ELECTRICAL SPECIFICATION:

RATED CAPACITY:	1050mAh typical with 0.2C discharge
NOMINAL VOLTAGE:	3.7 V
WATT-HOUR RATING:	3.89Wh
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
MAXIMUM CHARGE VOLTAGE [V]:	4.2 ($\pm 30\text{mV}$) (Recommended 4.1V/cell)
CHARGE CURRENT:	0.5C (standard); 1.0C (maximum)
RECOMMENDED CHARGE CUT OFF:	By current 0.01C
MAX. CONTINUOUS DISCHARGE CURRENT:	1.0C
DISCHARGE CUT OFF VOLTAGE:	3.0V
INTERNAL IMPEDANCE (NEW CELL):	$\leq 180 \text{ m}\Omega$
EXPECTED CYCLE LIFE:	≥ 300 Cycles (0.2C discharge to 3.0V, 0.2C constant current charge to 4.2V) $>80\%$ of initial capacity

CELL PROTECTION:

OVER CHARGE VOLTAGE DETECTION:	$4.28 \pm 0.025\text{V}$ (0.96 to 1.4 sec. delay, resume $4.08 \pm 0.025\text{V}$)
OVER DISCHARGE VOLTAGE DETECTION:	$3.0 \pm 0.05\text{V}$ (115 to 173 msec. delay)
OVER CURRENT DETECTION:	1.5A to 3.5A (7.2 to 11 msec. delay), remove load to recover

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0 to $+45^\circ\text{C}$
DISCHARGE:	-20 to $+55^\circ\text{C}$
CHARGE RETENTION/STORAGE [%]:	within 1 year -20 to $+20^\circ\text{C}$ $>80\%$ within 3 months -20 TO $+45^\circ\text{C}$ $>80\%$

HUMIDITY:	$60 \pm 25\% \text{RH}$
-----------	-------------------------

4. ENVIRONMENTAL AND SAFETY

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

5. CELL REGULATORY APPROVALS:

UL:	UL1642
-----	--------

5 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:	Approved UN38.3 5th Edition
UL:	Approved to IEC62133:2012



GlobTek, Inc.
www.globtek.com
 186 Veterans Drive, Northvale, NJ 07467
 Tel. 201-784-1000 Fax 201-784-0111

Drawing Title: Li-Ion Polymer Battery with Protection Circuit
 3.7 Volts @ 1050mAh
 Model No.: GP404852 (1ICP4/45/47)
 Part No.: BL1200P4054481S1PCAC

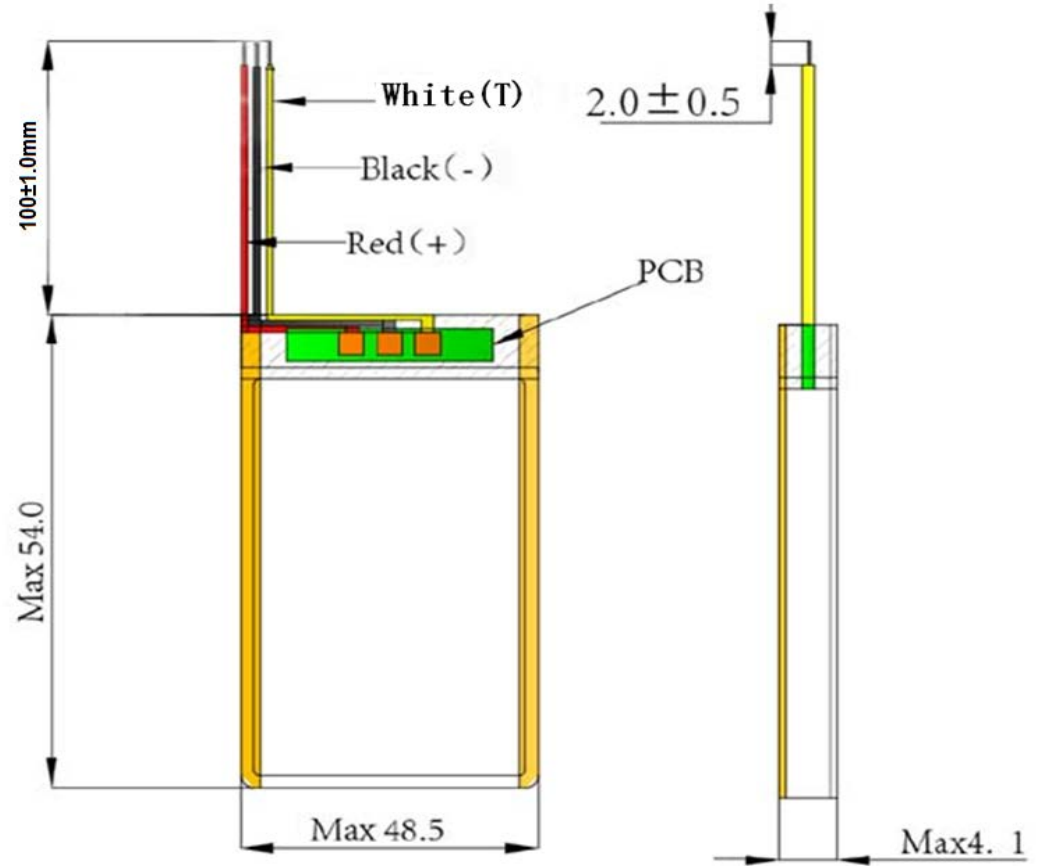
Rev. D

6. MECHANICAL:

DIMENSIONS:	
Length	53.0 +/- 1.0mm
Width	48.0 +/- 0.5mm
Thickness	4.0 +/- 0.1mm
SHRINK WRAP:	N/A
WIRE TYPE:	UL1571, 28AWG
WIRE LENGTH:	100mm +/- 1.0mm
RED	Positive (+)
BLACK	Negative (-)
YELLOW	10K NTC
STRIP LENGTH:	As required



Stripped and tinned conductor ends will be covered with tape to avoid accidental shorting during handling and transit.



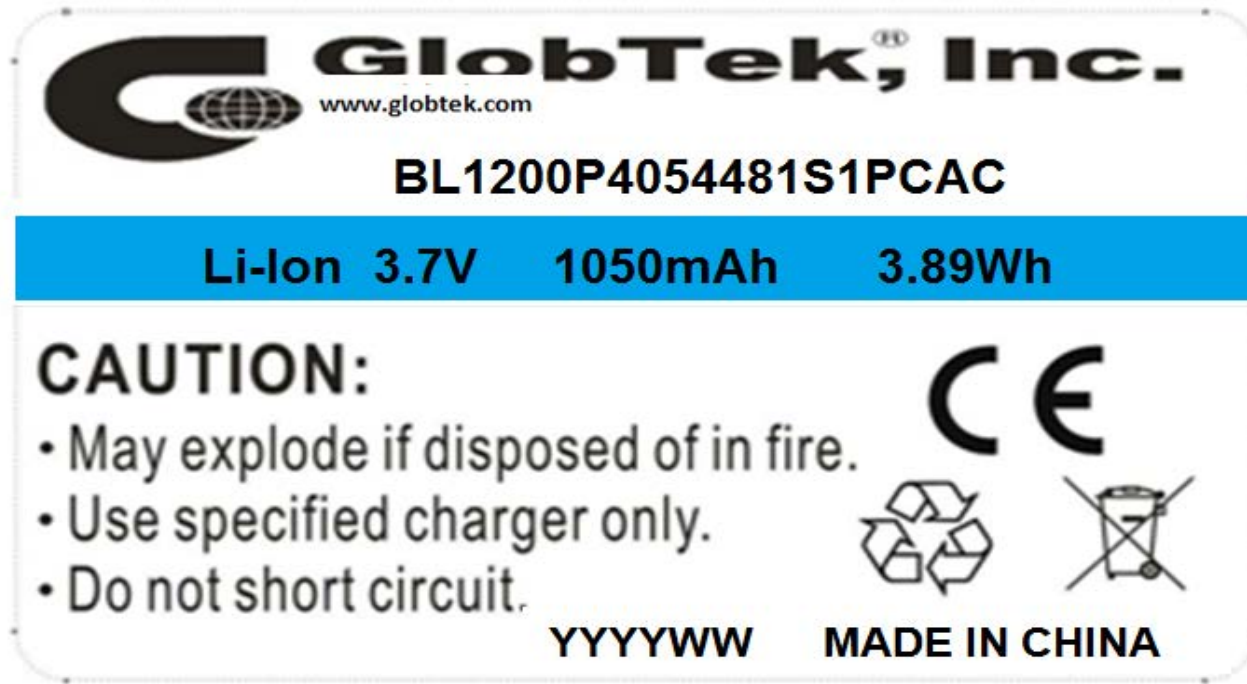
[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)
[STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK](#)

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. LABEL:

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

