_	KOPRIE LARY INFORMATION: ROPRIETARY 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		
А	Initial Release	BS	25754	12/23/14	HM		
В	Correct battery type from prismatic to polymer, update cell protection specifications, update drawing, add staggered lead lengths	BS	25839	3/17/2015	HM		
	and strip/tin specifications						
С	Add (Recommended 4.1V/cell) to Max. Charging Voltage, change capacity rating to 1050mAh (typical), change Watt-Hour Rating	SV	27497	1/29/2020	DR		
	to 3.89WH, update label to show Li-Ion 3.7V 1050mAh 3.89Wh, add IEC Designation Code to Model No.						
D	Update wire termination to 100mm±1mm	SV	27500	2/4/2020	DR		
D1	Add packaging info, Format update	DR	27544	7/5/2020	DR		
Е	Update NTC wire to Yellow color	DR	27565	8/7/2020	DR		
F	Update capacity from 1050 mAh to 1200 mAh, Watt-hours rating to 4.44Whm, add note on page 4	DR	27578	10/30/2020	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

GlobTek, Inc.	Drawing Title: Li-Ion Polymer Battery with Protection Circuit	
www.globtek.com	3.7 Volts @ 1200mAh	
186 Veterans Drive, Northvale, NJ 07467	Model No.: GP404852 (1ICP4/45/47)	
Tel. 201-784-1000 Fax 201-784-0111	Part No.: BL1200P4054481S1PCAC	Rev. F

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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 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, which supersede all other agreements, terms and conditions <u>http://en.globtek.com/terms-and-conditions/</u>

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:

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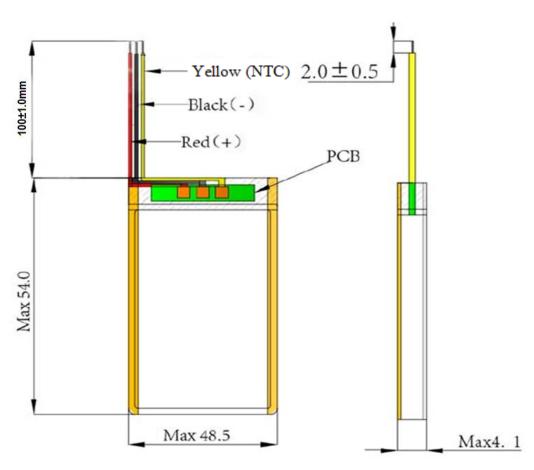
Battery with safety circuit: CELL:	GlobTek GP404852	istion .
PCM:	G3J/8205A	L Seat
NTC:	10K	
ID:	N/A	
CONFIGURATION:	1S1P	[®] CRoHS
WEIGHT:	Approximately 30grams	
2.ELECTRICAL SPECIFICATION:	, province, organic	
RATED CAPACITY:	1200mAh typical with 0.2C discharge	
NOMINAL VOLTAGE:	3.7 V	-energy PAR
WATT-HOUR RATING:	4.44Wh	
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE	
MAXIMUM CHARGE VOLTAGE [V]:	4.2 (±30mV) (Recommended 4.1V/cell)	
CHARGE CURRENT:	0.5C (standard); 1.0C (maximum)	
RECOMMENDED CHARGE CUT OFF:	By current 0.01C	
MAX. CONTINUOUS DISCHARGE CURRE		
DISCHARGE CUT OFF VOLTAGE:	3.0V	
INTERNAL IMPEDANCE (NEW CELL):	≤180 mΩ	
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:	$4.28 \pm 0.025 V$	
	$4.26 \pm 0.025 \text{V}$ o 1.4 sec. delay, resume $4.08 \pm 0.025 \text{V}$	
OVER DISCHARGE VOLTAGE DETECTION:		
	0 173 msec. delay)	
OVER CURRENT DETECTION:	1.5A to 3.5A (7.2 to 11 msec. delay), remove load to recover	
OVER ODIRENT DETECTION.		
3. AMBIENT CONDITIONS		
TEMPERATURE RANGE:		
CHARGE:	0 to +45°C	
DISCHARGE:	-20 to +55°C	
CHARGE RETENTION/STORAGE [%]:	within 1 year -20 to +20°C >80%	
	within 3 months -20 TO +45°C >80%	
HUMIDITY:	60 ± 25%RH	
-		
4.ENVIORMENTAL AND SAFETY		
4.ENVIORMENTAL AND SAFETY PLEASE FOLLOW GlobTek, Inc. HANDLIN	G AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.	
4.ENVIORMENTAL AND SAFETY PLEASE FOLLOW GlobTek, Inc. HANDLIN 5. CELL REGULATORY APPROVALS:	G AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.	
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7. MECHANICAL:

53.0 +/- 1.0mm	
48.0 +/- 0.5mm	
4.0 +/- 0.1mm	
N/A	
UL1571, 28AWG	
100mm +/- 1.0mm	
Positive (+)	
Negative (-)	
10K NTC	
As required	
	48.0 +/- 0.5mm 4.0 +/- 0.1mm N/A UL1571, 28AWG 100mm +/- 1.0mm Positive (+) Negative (-) 10K NTC

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



Note: Max expansion rate of the cell after 500 cycles - 8%

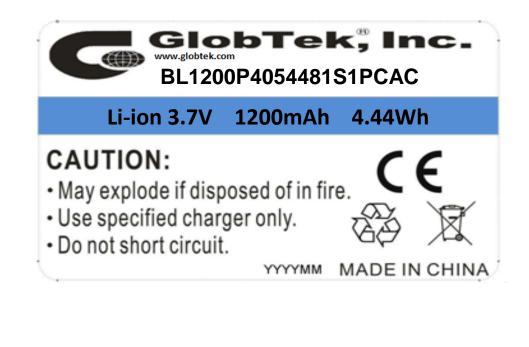
ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK. STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK

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8. LABEL:

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

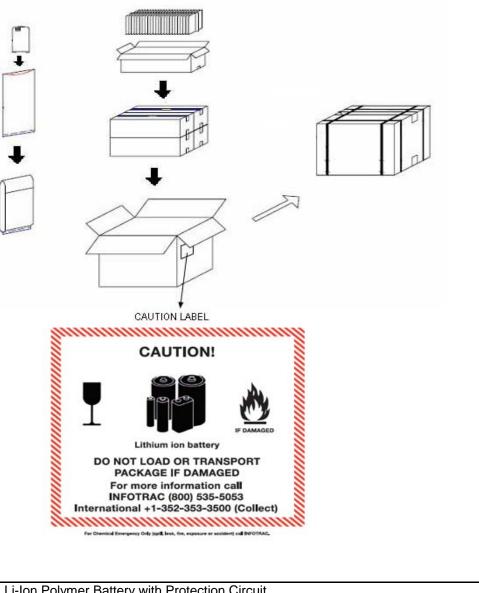


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9. PACKAGING:

PE BAG SIZE	120*80 mm
GIFT BOX SIZE:	60*45*15 mm
CARTON SIZE:	335*260*225 mm
QUANTITY PER CARTON:	340
G.W.	TBD



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