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	REVIS	ON HISTORY				
REV	DESCRIPTION		SALES	RFS	DATE	APPROVE
А	INITIAL RELEASE		DR	25601	8/4/2014	HM
В	UPDATE TYPO ERROR ON LABEL: CHANGE 'DI' TO DO'		BS	25629	9/4/2014	HM
С	UPDATE & CLARIFY ELECTRICAL SPECIFICATIONS		BS	25848	3/25/2015	HM
D	CHANGE 'RATED CAPACITY" TO "NOMINAL CAPACITY"		BS	25920	5/21/2015	HM
Е	UPDATE RATING FROM 750 mAh TO 700mAh; UPDATE PCM		BS	26182	1/25/2016	HM
F	UPDATE LABEL ARTWORK, ADD BACK LABEL		BS	26244	3/16/2016	HM
	ADD BARCODE S/N LABEL		BS	26261	3/22/2016	HM
Н	Add C-TUV-US logo, revise IEC code from 1ICP5/30/48 to 1ICP/31/48, change "SEC	ONDARY Li-Ion" to "Li-Ion Polymer",				
	add "dc" to the voltage, add customer revision letter next to customer part number.		BS	26469	9/23/2016	HM
Ι	ADD FRENCH WORDS TO LABEL		BS	26618	1/3/2017	HM
J	CHANGE BATTERY VOLTAGE FROM 3.7 NOMINAL TO 3.7 MINIMUM		BS	26632	1/19/2017	DR
Κ	UPDATE RATING FROM 700 TO 700mAh (NOMINAL), 650mAh(MINIMUM)					
	UPDATE TRANSPORTATION AND UL BATTERY APPROVALS TO INCLUDE 'APP	•				
	UPDATE MINIMUM VOLTAGE FROM 3.7V TO 3.7V(NOMIMNAL), CHARGE TO 3.7	8V MINIMUM	SV	26872	8/22/2017	DR
L	UPDATE LABEL CUSTOMER P/NFROM 81087060A TO 81087060C, UPDATE LAB	BEL DIMENSIONS FROM 32*20 mm TO 40*25mm	SV	27098	5/30/2018	DR
М	Update humidity operating range from 60±25% to 15% - 85%RH (Per ECR 87	18DJD); Update packaging from	SV	27162	9/12/2018	DR
	individual gift boxes to plastic trays (Per FAI 8918DJD)					
M1	M1 FORMAT UPDATE			27542	7/5/2020	DR
	/12 UPDATE RoHS from EU 2002/95/EC AND CHINA SJ/T 11363-2006 to DIRECTIVE 2011/65/EU AND CHINA SJ/T 11363-2014			27645	6/14/2021	DR
М3	13 UPDATE LABEL: REMOVE TUV APPROVAL			27657	8/17/2021	DR
M4	UPDATE LABEL TO REV.D		MK	27769	2/22/2023	DR
M5	UPDATE 'ROHS' compliance		MK	27790	4/18/2023	DR
	See Page 2 for important battery warranty and usage information.					
Globtek Limit Globtek Content		out prior written approval from the CEO of Globtek Inc. g Title: Li-Ion POLYMER BATTERY PACK				
		LTS @ 700mAh				
		L NO: GP503048				•
	201-784-1000 Fax 201-784-0111 PART I	NO: BL0750F5030481S1PCMC				Rev M

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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** <u>http://en.globtek.com/safety-cautions.php#.UUD-NRzU 18</u>

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-lon 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-lon 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 http://en.globtek.com/terms-and-conditions/

# Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete orde	er 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.	Drawing Title: Li-Ion POLYMER BATTERY PACK			
www.globtek.com	3.7 VOLTS @ 700mAh			
86 Veterans Drive, Northvale, NJ 07467 MODEL NO: GP503048				
Tel. 201-784-1000 Fax 201-784-0111	PART NO: BL0700F5030481S1PCMC		Rev M6	

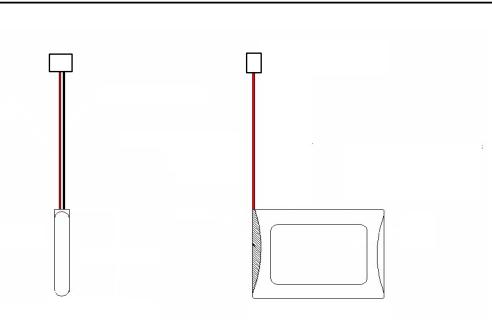
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LITHIUM-ION POLYMER BATTERY PAC	GP503048		
PCM:	GLOBTEK STANDARD		Less Less
NTC:	N/A		
ID:	N/A		
CONFIGURATION:	1S1P		<sup>3</sup> (RoHS
WEIGHT:	APROX 22.0 g		
2.ELECTRICAL SPECIFICATION:	AFROX 22.0 g		
NOMINAL CAPACITY:	700 mAh (NOMINAL); 650mAh (MIN		ENER
VOLTAGE:	3.7V (NOMINAL); CHARGE TO 3.7V		STAR
WATT-HOUR RATING:	2.59WH		PARTI
CHARGING METHOD:		CONSTANT VOLTAGE 4.2V TO 0.01C CUT-OFF	
MAX. CHARGE VOLTAGE [V]:	4.20 (±50mV)		
CHARGE CURRENT:	0.2C STANDARD; 1.0C MAXIMUM		
REC. CHARGE CUT OFF:	BY CURRENT 50mA OR TIMER 4H	4	
DISCHARGE CURRENT:	0.2C STANDARD; 1.0C MAXIMUM		
REC. DISCHARGE CUT OFF:	3V	0011110000	
INTERNAL IMPEDANCE:	≤220 mΩ (new cell)		
EXP. CYCLE LIFE:		CAPACITY (0.5C CHARGE / 0,5C DISCHARGE)	
EXF. GIGLE LIFE.		CAPACITY (0.5C CHARGE / 0.5C DISCHARGE)	
CELL PROTECTION:			
OVER CHARGE DETECTION	N: 1 25 + 0 025V		
	1.4 SEC. DELAY, RESUME 4.08 ± 0.	025\/\	
OVER DISCHARGE DETECTIO		023 V )	
		.08V; RECHARGE TO BEGIN CHARGING AGAIN)	
	N: 1.0A to 4.0A (7.2 to 11.0 msec. DEL		
3. AMBIENT CONDITIONS	1. 1.0A to 4.0A (7.2 to 11.0 msec. Del	AT, CUT LOAD TO RELEASE)	
TEMPERATURE RANGE:			
CHARGE:	0 TO +45°C		
DISCHARGE:	-20 TO +60°C		
CHARGE RETENTION/STORAGE [%]:	1 YEAR AT -20 TO +20°C >80%		
CHARGE RETENTION/STORAGE [%].	3 MONTHS AT -20 TO +20 C >80%		
	1 MONTH AT -20 To +60°C >80%	0	
	15%- 85% RH		
4.ENVIORMENTAL AND SAFETY PLEASE FOLLOW GlobTek, Inc. HANDLI		D Lilan & LiDaluman	
	NG AND SAFETY PRECAUTIONS FO	R Llion & LiPolymer.	
5. CELL REGULATORY APPROVALS:			
UL:	UL 1642; MH48131		
6 BATTERY PACK APPROVALS:			
RoHS:		RoHS III & China SJ/T 11363-2014 China RoHS 2 2019	
	a) Article 13-14, b) Article 18		
CE Mark:		CTROMAGNETIC COMPATIBILITY INCLUDING BUT NOT LIMITED TO	
	EN61000-6-1:2007, EN61000-6-3:2		
TRANSPORTATION:	APPROVED TO un38.3, UL 2054, I		
UL:	APPROVED TO UL 2054, IEC 6213		
bbTek, îlnc.	Dra	wing Title: Li-Ion POLYMER BATTERY PACK	
	27	VOLTS @ 700mAh	
globtek.com	0.7		

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#### 7. MECHANICAL:

DIMENSIONS:	50.5 x 30.5 ( <u>+</u> .5) x 5.3 ( <u>+0</u> .3) mm
SHRINK WRAP:	BLUE PVC
WIRE TYPE:	UL1007, 24AWG
WIRE LENGTH:	50.8 mm +5.0 /-0.0mm
WIRE POLARITY:	PIN 1: RED POSITIVE (+)
WIRE POLARITY:	PIN 3: BLACK NEGATIVE (-)
STRIP LENGTH:	AS REQUIRED
TIN LENGTH:	N/A
ADDITIONAL REQUIREMENTS:	N/A



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

💮 GlobTek, înc.	Drawing Title: Li-Ion POLYMER BATTERY PACK		
www.globtek.com	3.7 VOLTS @ 700mAh		
186 Veterans Drive, Northvale, NJ 07467	MODEL NO: GP503048		
Tel. 201-784-1000 Fax 201-784-0111	PART NO: BL0750F5030481S1PCMC	Rev M6	

SHEET 4 of 8

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### 8. OUTPUT CONNECTOR:

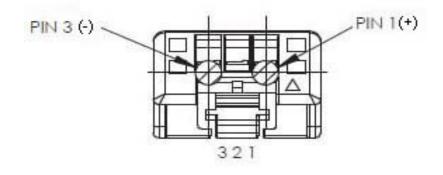
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW



EQUIVALENT	Y / N	
PLUG HOUSING TYPE	Y	MOLEX 5025780300
PLUG TERMINALS		MOLEX 5025790000
PLUG DIMENSIONS		See drawing below
POLARITY		PIN 1: RED POSITIVE(+)
ADDITIONAL REQUIREMENTS		PIN 3: BLACK NEGATIVE (-)

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

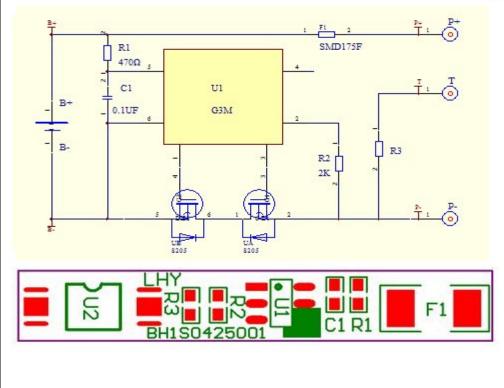
#### **BACK VIEW**



_		
GlobTek, Inc.	Drawing Title: Li-Ion POLYMER BATTERY PACK	
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# **Battery Protection Module**

NO.	Location	Part name	Specification	Pack type	Qty
1	U1	Battery protection IC	G3J	SOT-23-6	1
2	U2	Silicon MOSFET	A8820	TSSOP-8	1
3	R1	Resistance	SMD 470Ω±5%	0402	1
4	R2	Resistance	SMD 2K±5%	0402	1
5	R3	Resistance	SMD 10KNTC±5%	0402	1
6	C1	Capacitance	SMD 0.1µF	0402	1
7	F1	PTC	SMD175F	1210	1
8	PCB	Print circuit board	LHY- BH1S0425001 (25±0.15)*(4±0.1)*(0.6±0.1)		1



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9. LABEL:	
MATERIAL:	TBD
BACKGROUND COLOR:	WHITE
TEXT COLOR:	BLACK
LABEL WIDTH: (mm)	40 mm
LABEL HEIGHT: (mm)	25 mm
ADDITIONAL REQUIREMENTS:	N/A

FRONT LABEL:



#### BACK LABEL:

CAUTION - THE BATTERY USED IN THIS DEVICE MAY PRESENT A RISK OF FIRE OR CHEMICAL BURN IF MISTREATED. DO NOT DISASSEMBLE, CRUSH, HEAT ABOVE 55°C OR INCINERATE. USE OF ANOTHER BATTERY MAY PRESENT A RISK OF FIRE OR EXPLOSION. DISPOSE OF USED BATTERY PROMPTLY AND PROPERLY. KEEP AWAY FROM CHILDREN. PLEASE USE ONLY SPECIFIED CHARGER.

ATTENTION - LA PILE UTILISEE DANS CET APPAREIL PEUT PRESENTER DES RISQUES D'INCENDIE OU DE BRÛLURE CHIMIQUE EN CAS DE MALTRAITEMENT. NE PAS DÉMONTER, ÉCRASER, CHAUFFER AU-DESSUS DE 55°C OU INCINÉRER. L'UTILISATION D'UNE AUTRE PILE PRESENTE UN RISQUE D'INCENDIE OU D'EXPLOSION. DISPOSER IMMÉDIATEMENT ET CORRECTEMENT DE LA BATTERIE UTILISÉE. GARDER LOIN DES ENFANTS. UTILISER AVEC CHARGEUR SPÉCIFIÉ SEULEMENT.

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SERIAL NUMBER FORMAT

(BARCODE<sup>H</sup>ND NUMAN-READABLE):

XXXXX = Sequential number starting at 00001

MM = Month of manufacture

YY = Year of manufacture

G = G (GlobTek)



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