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	REVISION HISTORY							
REV	DESCRIPTION	SALES	RFS	DATE	APPROVED			
Α	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			
G	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 "SECONDARY Li-lon" to "Li-lon 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			
K	UPDATE RATING FROM 700 TO 700mAh (NOMINAL), 650mAh(MINIMUM)							
	UPDATE TRANSPORTATION AND UL BATTERY APPROVALS TO INCLUDE 'APPROVED TO',							
	UPDATE MINIMUM VOLTAGE FROM 3.7V TO 3.7V(NOMIMNAL), CHARGE TO 3.78V MINIMUM	SV	26872	8/22/2017	DR			
L	UPDATE LABEL CUSTOMER P/NFROM 81087060A TO 81087060C, UPDATE LABEL 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 8718DJD); Update packaging from	SV	27162	9/12/2018	DR			
	individual gift boxes to plastic trays (Per FAI 8918DJD)							
M1	FORMAT UPDATE	DR	27542	7/5/2020	DR			
M2	UPDATE RoHS from EU 2002/95/EC AND CHINA SJ/T 11363-2006 to DIRECTIVE 2011/65/EU AND CHINA SJ/T 11363-2014	DR	27645	6/14/2021	DR			
М3	UPDATE LABEL: REMOVE TUV APPROVAL	MK	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.

#### 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 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 M5

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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** <a href="http://en.globtek.com/safety-cautions.php#.UUD-NRzU\_18">http://en.globtek.com/safety-cautions.php#.UUD-NRzU\_18</a>

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 <a href="http://en.globtek.com/terms-and-conditions/">http://en.globtek.com/terms-and-conditions/</a>

# 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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Tel. 201-784-1000 Fax 201-784-0111	PART NO: BL0700F5030481S1PCMC	Rev M5

UL:

GlobTek; Inc.

www.globtek.com

186 Veterans Drive, Northvale, NJ 07467

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

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LITHIUM-ION POLYMER BATTERY PACK	,
CELL:	GP503048
PCM:	GLOBTEK STANDARD
NTC:	N/A
ID:	N/A
CONFIGURATION:	1S1P
WEIGHT:	APROX 22.0 g
2.ELECTRICAL SPECIFICATION:	THE NOTE LIVE
NOMINAL CAPACITY:	700 mAh (NOMINAL); 650mAh (MINIMUM)
VOLTAGE:	3.7V (NOMINAL); CHARGE TO 3.78V MINIMUM
WATT-HOUR RATING:	2.59WH
CHARGING METHOD:	CONSTANT CURRENT TO 4.20V + 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
DISCHARGE CURRENT:	0.2C STANDARD; 1.0C MAXIMUM CONTINUOUS
REC. DISCHARGE CUT OFF:	3V
INTERNAL IMPEDANCE:	≤220 mΩ (new cell)
EXP. CYCLE LIFE:	>500 CYCLES > 70% OF INITIAL CAPACITY (0.5C CHARGE / 0,5C DISCHARGE)
	>300 CYCLES, >80% OF INITIAL CAPACITY (0.5C CHARGE / 0.5C DISCHARGE)
CELL PROTECTION:	
OVER CHARGE DETECTIO	N: 4.25 ± 0.025V
(0.9 TO	1.4 SEC. DELAY, RESUME 4.08 ± 0.025V)
OVER DISCHARGE DETECTION	N: 3.0 ± 0.05V
(115 to	173msec. DELAY, RELEASE 3.20 ± 0.08V; RECHARGE TO BEGIN CHARGING AGAIN)
OVER CURRENT DETECTION	N: 1.0A to 4.0A (7.2 to 11.0 msec. DELAY; 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 +20°C >80%
	3 MONTHS AT -20 TO +45°C >80%
	1 MONTH AT -20 To +60°C >80%
HUMIDITY:	15%- 85% RH
4.ENVIORMENTAL AND SAFETY	
	NG AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.
5. CELL REGULATORY APPROVALS:	
UL:	UL 1642; MH48131
6 BATTERY PACK APPROVALS:	
RoHS:	Delegated Directive (EU) 2015/863 RoHS III & China SJ/T 11363-2014 China RoHS 2 2019
	a) Article 13-14, b) Article 18
CE Mark:	COMPLIES WITH 2004/108/EC ELECTROMAGNETIC COMPATIBILITY INCLUDING BUT NOT LIMITED TO
	EN61000-6-1:2007, EN61000-6-3:2007
TRANSPORTATION:	APPROVED TO un38.3, UL 2054, IEC 62133

APPROVED TO UL 2054, IEC 62133

Drawing Title: Li-Ion POLYMER BATTERY PACK

PART NO: BL0750F5030481S1PCMC

3.7 VOLTS @ 700mAh

MODEL NO: GP503048

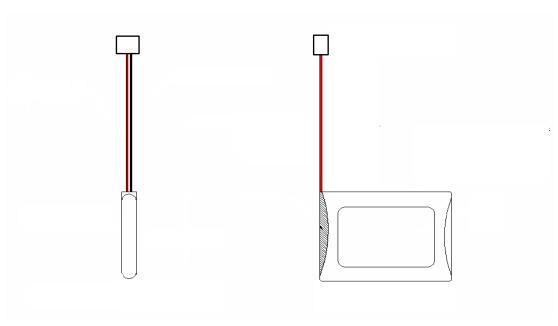
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RoHS BOHS	1
ss with	
CRoHS	



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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, Inc.	Drawing Title: Li-Ion POLYMER BATTERY PACK	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 M5		

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#### 8. OUTPUT CONNECTOR:

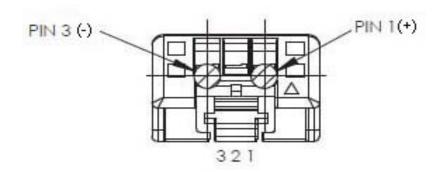
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW



EQUIVALENT	Y/N	
PLUG HOUSING TYPE	Υ	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

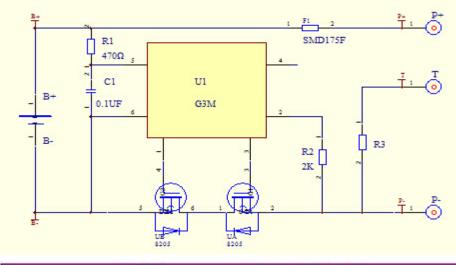
## **BACK VIEW**



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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
	WHITE
	BLACK
LABEL WIDTH: (mm)	40 mm
LABEL HEIGHT: (mm)	25 mm
ADDITIONAL REQUIREMENTS:	N/A

#### **FRONT LABEL:**



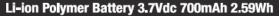


BL0750F5030481S1PCMC P/N: 81087060 D









#### CAUTION:

- MAY EXPLODE IF DISPOSED OF IN FIRE.
- USE SPECIFIED CHARGER ONLY.
   DO NOT SHOPT CIRCUIT.
- DO NOT SHORT CIRCUIT.
   DO NOT DISASSEMBLE.
- DISPOSER DANS LE FEU.
  - UTILISER AVEC CHARGEUR SPÉCIFIÉ SEULEMENT.
  - NE PAS COURT-CIRCUITER.
  - NE PAS DÉMONTER.

ATTENTION:
• RISQUE D'EXPLOSION: NE PAS

RED WIRE: POSITIVE BLACK WIRE: NEGATIVE 1ICP5/31/48

MADE IN CHINA

#### **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.

# <u>SERIAL NUMBER FORMAT</u> (BARCODEHND NUMAN-READABLE):

MM = Month of manufacture

YY = Year of manufacture

G = G (GlobTek)

XXXXX = Sequential number starting at 00001

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## 10. PACKAGING:





Layer of cardboard added to bottom of master carton



Each stack holds 240 batteries



Master carton 414\*250\*190mm Master carton holds 480 batteries



Shipment is palletized

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