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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	G ADD BARCODE S/N LABEL			3/22/2016	HM
Н	Add C-TUV-US logo, revise IEC code from 1ICP5/30/48 to 1ICP/31/48, change "SECONDARY Li-Ion" to "Li-Ion Polymer",				
	add "dc" to the voltage, add customer revision letter next to customer part number.		26469	9/23/2016	HM
Ι	I ADD FRENCH WORDS TO LABEL		26618	1/3/2017	HM
J	J CHANGE BATTERY VOLTAGE FROM 3.7 NOMINAL TO 3.7 MINIMUM			1/19/2017	DR
K	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)				

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 M

RELEASED

By N.Frost at 2:11 pm, Sep 12, 2018

# 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\_I8">http://en.globtek.com/safety-cautions.php#.UUD-NRzU\_I8</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-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.

# 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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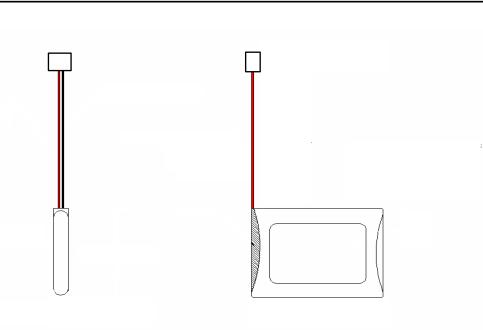
LITHIUM-ION POLYMER BATTERY PA	GP503048		
PCM:	GLOBTEK STANDARD		
NTC:	N/A		
ID:	N/A		
CONFIGURATION:	1S1P		<sup>®</sup> CRoHS
WEIGHT:	APROX 22.0 g		
2.ELECTRICAL SPECIFICATION:			
NOMINAL CAPACITY:	700 mAh (NOMINAL); 650mAh (MINIMUM)		ENERGY
VOLTAGE:	3.7V (NOMINAL); CHARGE TO 3.78V MINIM	UM	STAR
WATT-HOUR RATING:	2.59WH		PARTNER
CHARGING METHOD:	CONSTANT CURRENT TO 4.20V + CONSTA	NT 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 CONTINU	IOUS	
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 DETECT			
(0.9	O 1.4 SEC. DELAY, RESUME 4.08 ± 0.025V)		
OVER DISCHARGE DETECT			
	o 173msec. DELAY, RELEASE 3.20 ± 0.08V; RE0		
	ON: 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			
	ING AND SAFETY PRECAUTIONS FOR Lilon &	LiPolymer.	
5. CELL REGULATORY APPROVALS:			
UL:	UL 1642; MH48131		
5 BATTERY PACK APPROVALS:			
RoHS:	COMPLIES WITH EU 2002/95/EC AND CHIN		
CE Mark:		NETIC COMPATIBILITY INCLUDING BUT NOT LIMITED TO	
	EN61000-6-1:2007, EN61000-6-3:2007		
TRANSPORTATION:	APPROVED TO un38.3, UL 2054, IEC 62133		
UL:	APPROVED TO UL 2054, IEC 62133		
obTek; Inc.	Drawing Title	e: Li-Ion POLYMER BATTERY PACK	
.globtek.com	3.7 VOLTS (	@ 700mAh	
<u>. GIODLEK.COM</u>			
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Rev M

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#### 6. 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

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SHEET 4 of 8

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# 7. OUTPUT CONNECTOR:

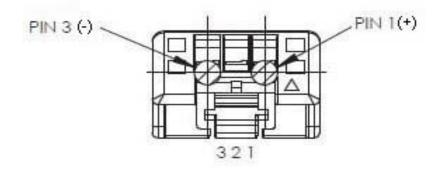
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW



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

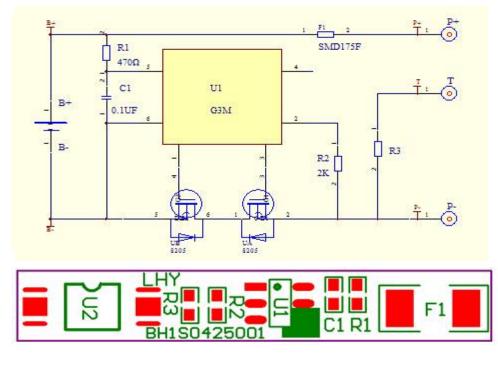
#### **BACK VIEW**



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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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8. 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:

GlobTek; Inc. www.globtek.com BL0750F50304813 P/N: 81087060 C	0916G0			
Li-ion Polymer Battery 3.7Vdc 700mAh 2.59Wh				
CAUTION: MAY EXPLODE IF DISPOSED OF IN FIRE. USE SPECIFIED CHARGER ONLY. DO NOT SHORT CIRCUIT.	ATTENTION: RISQUE D'EXPLOSION: NE DISPOSER DANS LE FEU. UTILISER AVEC CHARGEU NE PAS COURT-CIRCUTEI	R SPECIFIÉ SEULEMENT.		
DO NOT DISASSEMBLE.	INE PAS COURTERINE INE PAS DÉMONTER.	n. RED WIRE: POSITIVE BLACK WIRE: NEGATIVE 11CP5/31/48		

# SERIAL NUMBER FORMAT

(BARCODE AND HUMAN-READABLE):

- MM = Month of manufacture
- YY = Year of manufacture
- G = G (GlobTek)
- XXXXX = Sequential number starting at 00001

## 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.

💮 GlobTek; Inc.	Drawing Title: Li-Ion POLYMER BATTERY PACK	Drawing Title: Li-Ion POLYMER BATTERY PACK		
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#### 9. PACKAGING:





20 trays per stack



2 stacks of trays individually taped together in a bundle with layer of cardboard on top to protect the top layer of batteries



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

<b>A</b>		
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