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**REVISION HISTORY**

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	INITIAL RELEASE	JS	25993	7/9/2014	HM
B	UPDATE LABEL AND APPROVALS	JS	26204	2/12/2016	HM
C	MAX DISCHARGE CURRENT CHANGE TO 4.99A, FUEL GAUGE DATA ACCESS T0 I2C	MK	26882	8/30/2017	MK
D	UPDATE LABEL	SV	27083	5/8/2018	MK
D1	FORMAT UPDATE	DR	27541	7/5/2020	DR
E	Update packing to 270*210*100, Qty to 42 pcs	DR	27802	6/20/2023	DR
	Maximum Discharge Current from 2.5A to 0.3C				
	Minimum Discharge Voltage from 2.4V to 3V				
	Internal Impedance from 85milli Ohms to 180 milli Ohms				
	Fuel Gauge IC Used from BQ27200 to BQ27542				
	Overcharge Voltage from 4.3V to 4.28±0.025V, Add Charging Rate 0.2C				
	Overdischarge Voltage from 2.75 to 3±0.05V, Over current protection 5~12A				
	Storage Temperature and Charge Retention, Humidity 60 +/- 20% Relative Humidity				
	Update Rated Capacity from 9400mAh to 9100mAh, Watt-Hour Rating from 34.78 to 33.67				

 GlobTek®, Inc.  
www.globtek.com

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

Drawing Title: 1S5P Lithium-Ion Polymer Battery Pack with Built-in  
PCM, NTC(10K), Fuel Gauge, 5Cells, 3.7Volts@9100mAh

MODEL NO: GT683566

PART NO: BL1880F6835661S5PX9M

REV E

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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](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 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 consumer. 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 described in this or other GlobTek documents indicate that the product was qualified for (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 order processing.  
A delay in receipt of this form will delay delivery schedule.

- Company Name:
- Customer P/N:
- Quote Number:
- Date:
- Authorized Representative Name:


**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

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<b>186 Veterans Drive, Northvale, NJ 07467</b> <b>Tel. 201-784-1000 Fax 201-784-0111</b>	<b>PART NO: BL1880F6835661S5PX9M</b>	<b>REV E</b>

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**NOTES:**

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



**1. ELECTRICAL SPECIFICATIONS:**

Rated Capacity	9100	mAh Minimum
Nominal Voltage	3.7	Volts
Watt-Hour Rating	33.67	Watt Hour

**2. GENERAL SPECIFICATIONS:**

Cell Brand	GlobTek	
Cell Size	6.8*35*66 mm	
Cell Configuration	1S5P	
Thermistor (NTC) Inside Pack	10K	
Maximum Discharge Current	0.3C	
Minimum Discharge Voltage	3	Volts
Internal Impedance	≤180	milli Ohms
Protection Module	Bult-in inside the battery pack	
Pack ID	None	
Fuel Gauge IC Used	BQ27542	
Fuel Gauge Data Access Method	I2C	

**3. RECOMENDED CHARGER SPECIFICATIONS:**

Charger Circuit	EXTERNAL
Charging Method	Constant Current 0.2C and Constant Voltage 4.20V, 0.02C cut-off
Charge Termination Method	Minimum Charge Current and Safety Timer as back-up
Charging Rate	0.2C
Charging Time (Approximate)	5.5~6.0 Hours
Max. Charging Voltage	4.2 plus/minus +0%, -2%

**4. Protection**

Overcharge Voltage	4.28±0.025V
Overdischarge Voltage	3±0.05V
Over current protecion	5~12A
Overtemperture	Overtemperature circuit built-in inside the protection module

**5. AMBIENT CONDITIONS:**

Ambient Temperature During Charging	0°C to +45°C
Ambient Temperature During Discharging	-20°C to +60°C
Storage Temperature and Charge Retention	1 Year at -10C to +25C; >85% 6 Months at -10C to +45C; >85% 1 Month at -10C to +55C; >90%
Humidity	60 +/- 20% Relative Humidity

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**6. REGULATORY APPROVALS**

Cells Approved To  
Pack Approved To  
ROHS  
Transportation

Designed to meet UL 1642  
Designed to meet UL 2054, IEC 62133  
Complies with EU 2002/95/EC and China SJ/T 11363-2006  
Designed to meet UN 38.3

**7. WARRANTY**

Warranty

5 years warranty on the battery pack excluding the cells themselves which are covered by the Manufacturer's original warranty at their published warranty period. Please refer to the manufacturer's warranty policy for cells.

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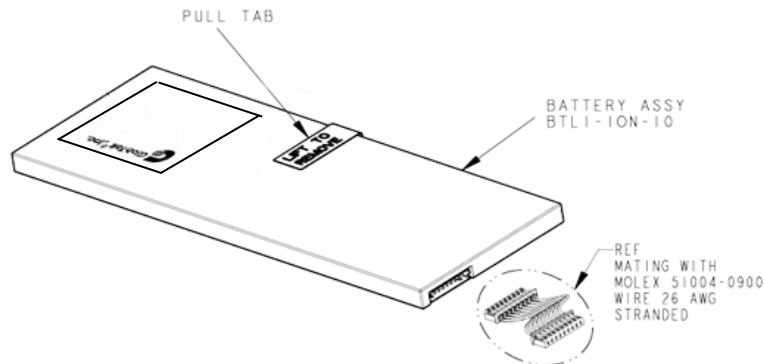
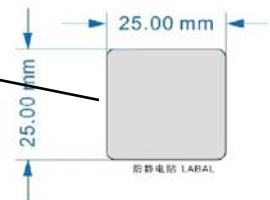
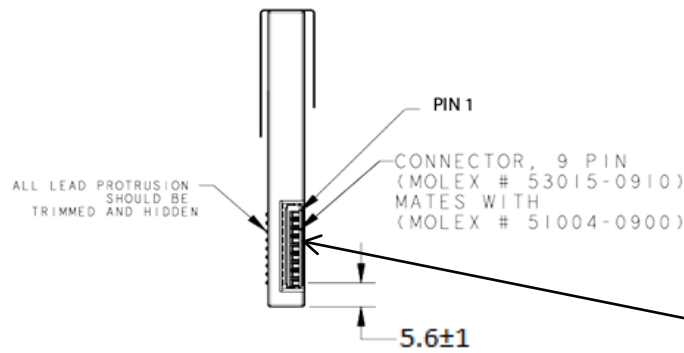
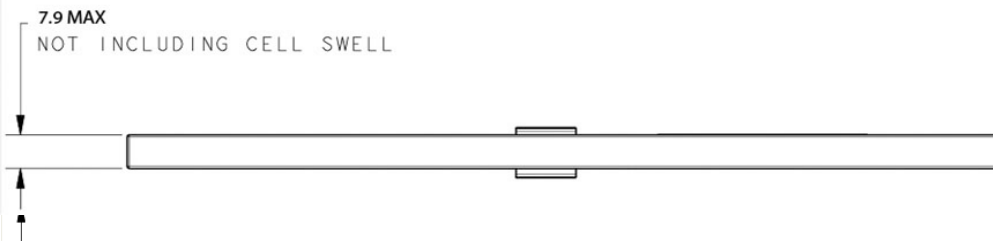
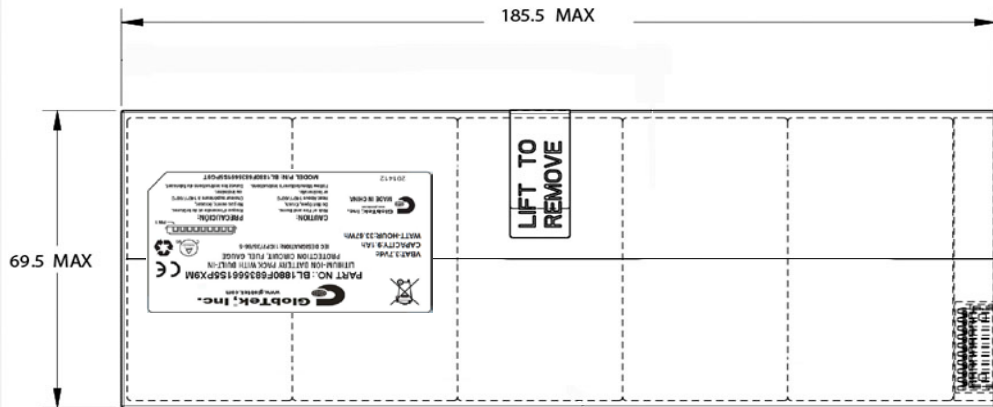
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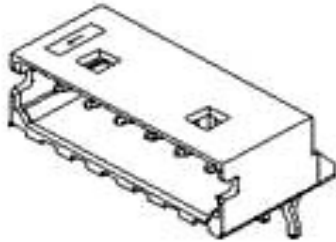
**8. MECHANICAL**

WRAP WITH BLACK POLYESTER FILM, 3M 1353 OR EQUIVALENT  
**SIZE: 183.5\*66.5\*7.9 mm**



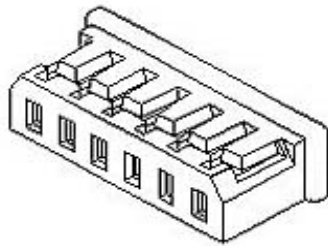
**9. OUTPUT CORD AND CONNECTOR:**

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



	Equivalent	Y/N	
Cable Type			
Cable Length			
Wire gauge			26AWG
Connector		Y	Molex 9P Header: 53015-0910
			N/A
Pin Assignment			Pin 1: POS
			Pin 2: POS
			Pin 3: POS
			Pin 4: THERM
			Pin 5: 12C SDA
			Pin 6: 12C SCL
			Pin 7: NEG
			Pin 8: NEG
			Pin 9: NEG
Other requirements			N/A

MATES WITH MOLEX 51004-0900 CRIMP HOUSING



FRONT VIEW

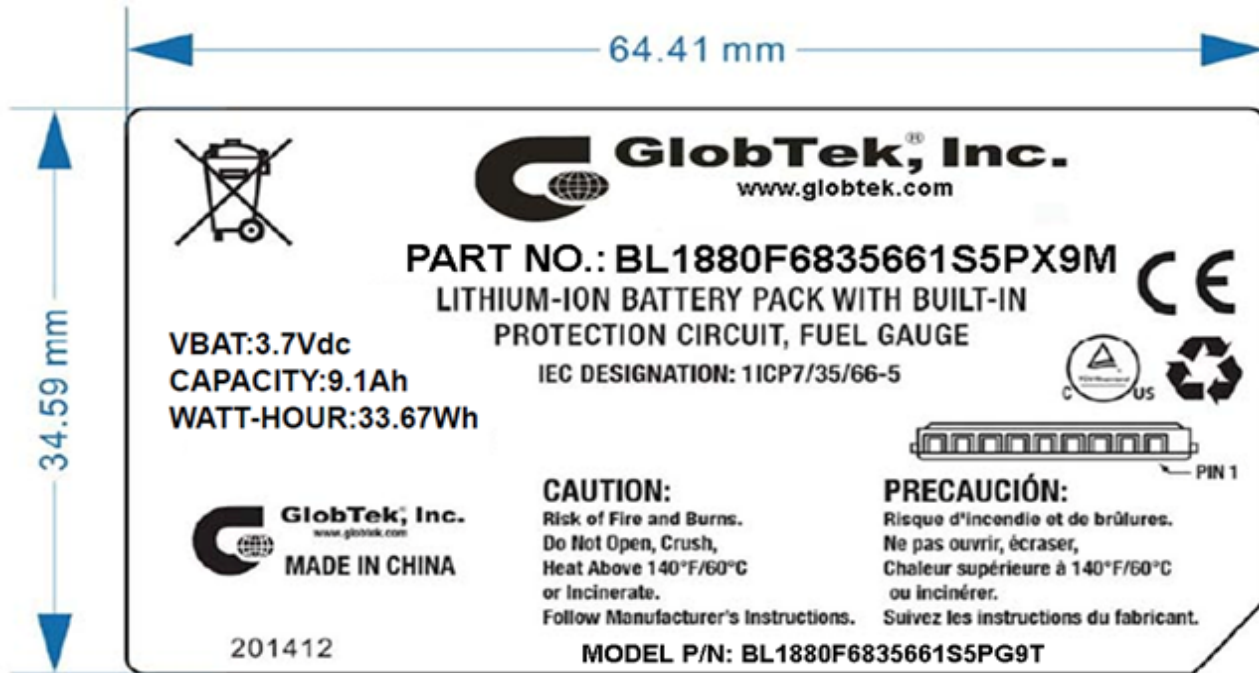


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**10. LABEL:**

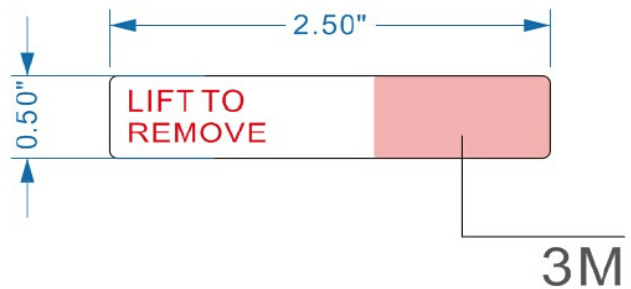
MATERIAL: FLAT THERMAL TRANSFER, IMPRINTABLE, POLYESTER SHEET  
 BACKGROUND COLOR: WHITE OR SILVER  
 TEXT COLOR: BLACK  
 LABEL WIDTH: (mm) 64.41  
 LABEL HEIGHT: (mm) 34.59



**Antistatic Tape for covering the connector**



**Pull Tape**



**CAUTION:**

1. MAY EXPLODE IF DISPOSED OF IN FIRE.
2. USE SPECIFIED POWER SUPPLY ONLY.
3. DO NOT SHORT CIRCUIT.

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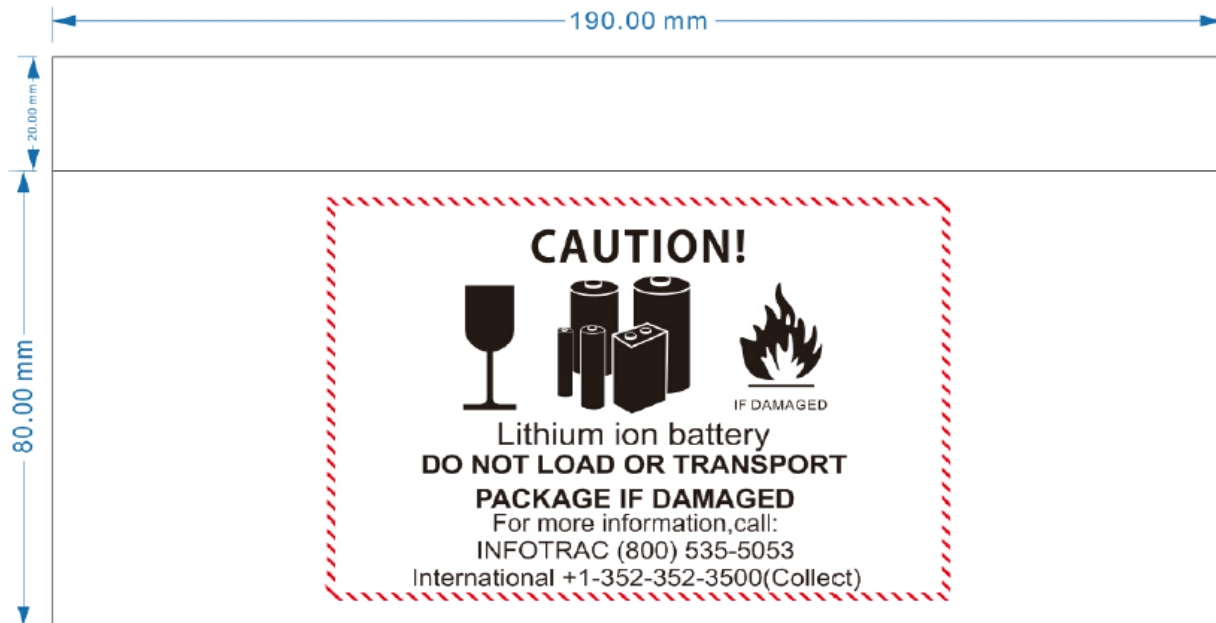
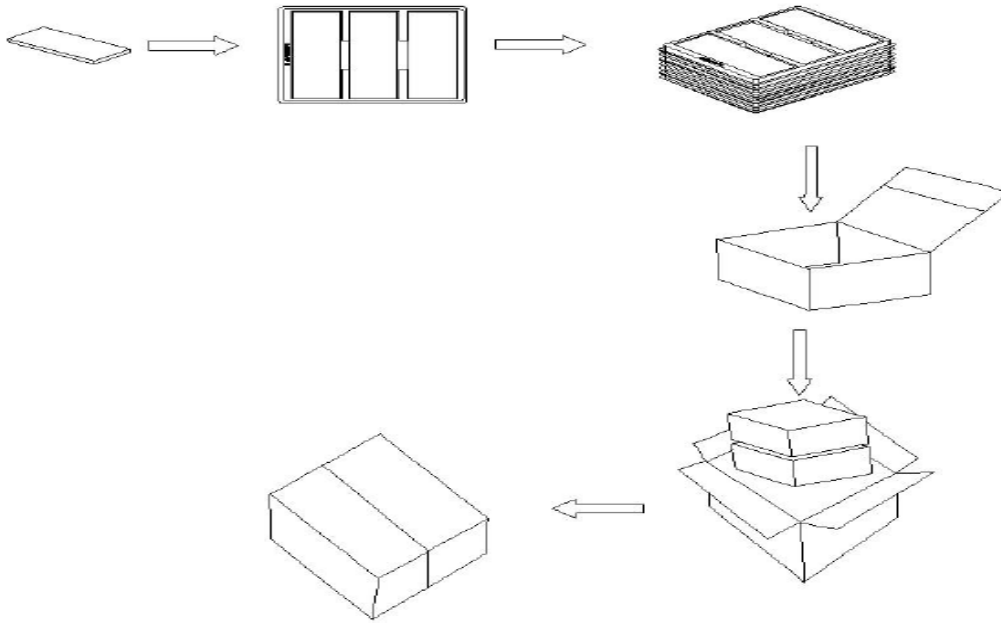
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**11. PACKING**

GIFT BOX SIZE	270*210*100
CARTON SIZE:	283*222*222
QUANTITY PER CARTON:	42
G.W.	10.0 kg



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