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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

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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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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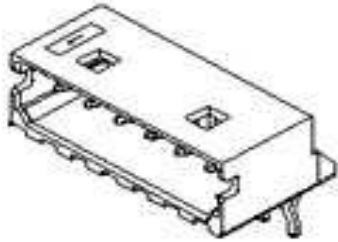
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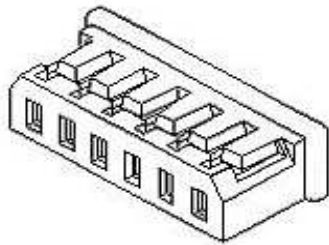
9. OUTPUT CORD AND CONNECTOR:

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



PIN 1

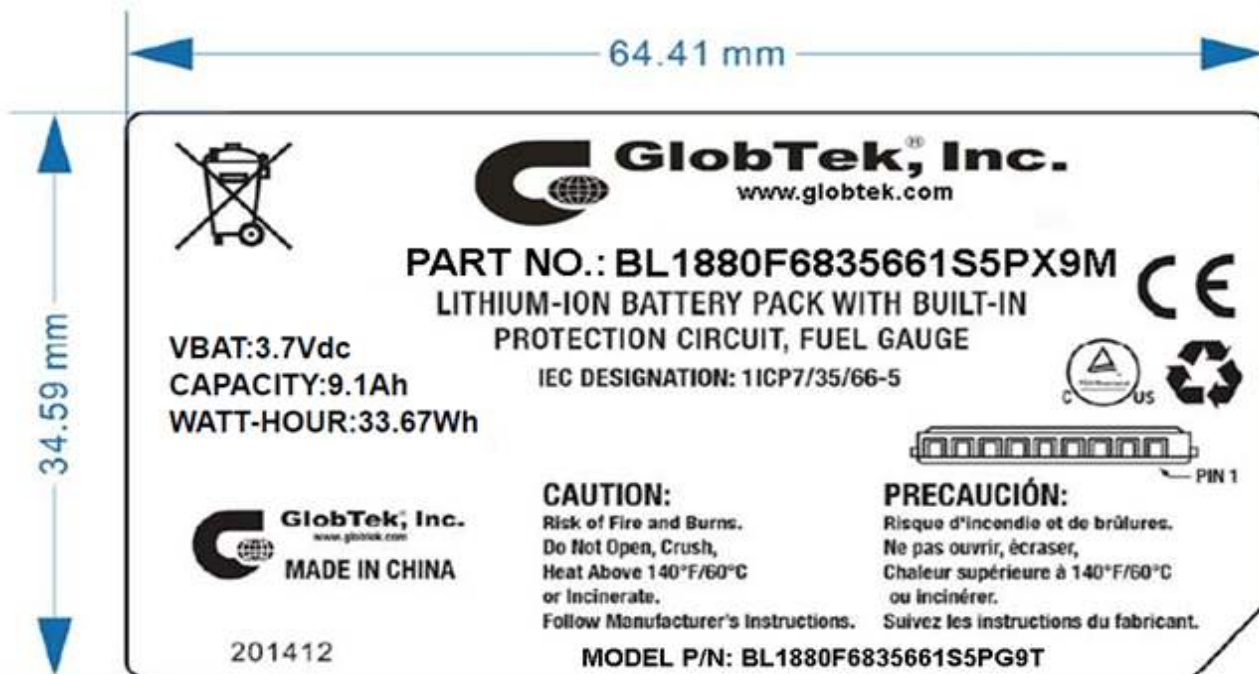


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10. LABEL:

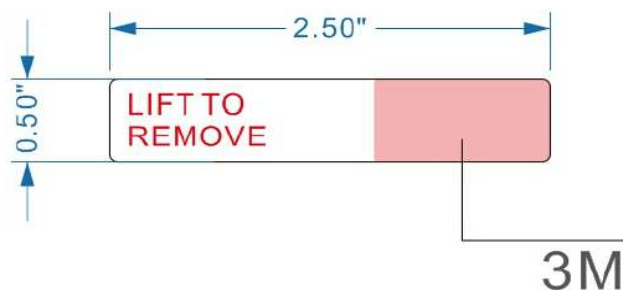
MATERIAL: FLAT THERMAL TRANSFER, IMPRINTABLE, POLYESTER SHEET
 BACKGROUND COLOR: WHITE OR SILVER
 TEXT COLOR: BLACK
 LABEL WIDTH: (mm) 64.41
 LABEL HEIGHT: (mm) 34.59



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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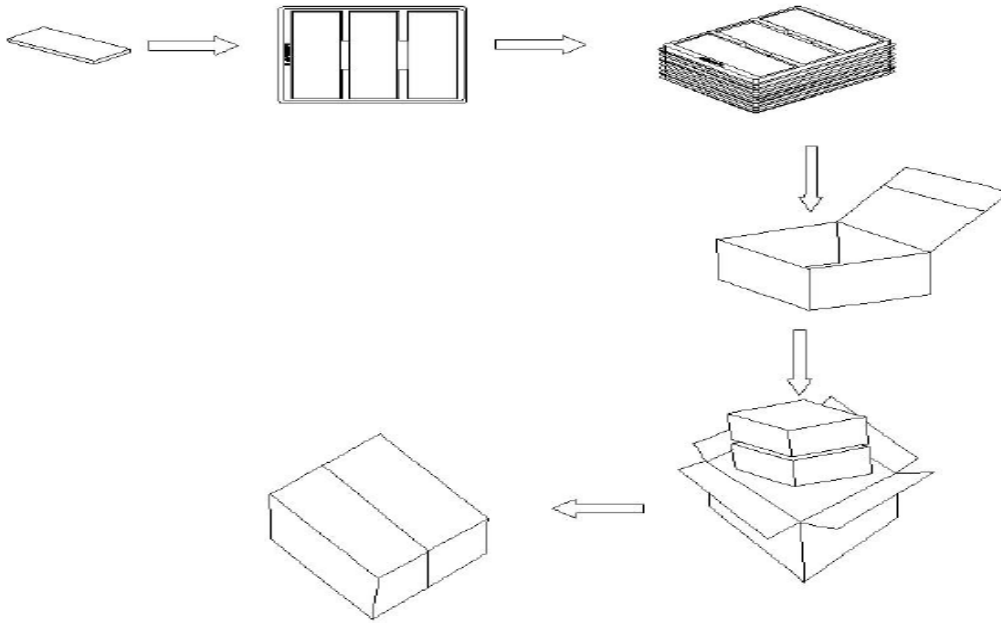
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11. PACKING

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



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