

PROPRIETARY INFO REC. CHARGE CUT OFF: BY CURRENT 50mA OR TIMER 4H change to REC. CHARGE CUT OFF: BY CURRENT 67mA OR TIMER 6H

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REVISION HISTORY

| REV | DESCRIPTION | SALES | RFS | DATE | APPROVED |
|-----|---|-------|-----------|-----------|----------|
| A | INITIAL RELEASE | DR | FI-137341 | 11.11.20 | DR |
| B | UPDATE MECHANICAL DWG | JM | | 3/12/2021 | DR |
| C | Update UN code and capacity to match Samsung cell spec (Changes in Yellow) | JM | | 3/18/2021 | DR |
| D | CELL: INR18650-35E change to CELL: LR1865HB, CHARGE CURRENT: 0.5C change to CHARGE CURRENT: 0.3C MAX REC. CHARGE CUT OFF: BY CURRENT 50mA OR TIMER 4H change to REC. CHARGE CUT OFF: BY CURRENT 67mA OR TIMER 6H | DR | 27637 | 5/18/2021 | DR |
| E | INTERNAL IMPEDANCE: ≤135 mΩ change to NTERNAL IMPEDANCE: ≤220 mΩ OVER CURRENT DETECTION: 3.5A to 6.5 A (20 to 28msec. DELAY) change to OVER CURRENT DETECTION: 4.0A to 7.0A (8 to 15msec. DELAY) | DR | 27643 | 6/10/2021 | DR |

See Page 2 for important battery warranty and usage information.

RELEASED

By pudxc at 11:41 am, Jun 14, 2021

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.

www.globtek.com

186 Veterans Drive, Northvale, NJ 07467

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

Drawing Title: Li-Ion Battery Pack, 1S1P, 3350mAh

MODEL NO: 1INR19/73

PART NO: BL3500C1865001S1PCMK

REV E

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By customer signing or accepting this document, they agree to acknowledge, accept, AND REGULARLY REVIEW 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 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 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 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:

 GlobTek®, Inc.

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

Drawing Title: Li-Ion Battery Pack, 1S1P, 3350mAh

MODEL NO: 11NR19/73

PART NO: BL3500C1865001S1PCMK

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1. GENERAL SPECIFICATION:

BATTERY WITH SAFETY CIRCUIT AND PLASTIC HOUSING

| | |
|----------------|------------------|
| CELL: | LR1865HB |
| PCM: | GLOBTEK STANDARD |
| NTC: | N/A |
| ID: | N/A |
| CONFIGURATION: | 1S1P |
| WEIGHT: | APROX 45 G |

2. ELECTRICAL SPECIFICATION:

| | |
|------------------------------------|---|
| RATED CAPACITY: | 3350 mAh |
| NOMINAL VOLTAGE: | 3.6 |
| WATT-HOUR RATING: | 12.06Wh |
| CHARGING METHOD: | CONSTANT CURRENT + CONSTANT VOLTAGE |
| MAX. CHARGE VOLTAGE [V]: | 4.2 |
| CHARGE CURRENT: | 0.3C MAX |
| REC. CHARGE CUT OFF: | BY CURRENT 67mA OR TIMER 6H |
| MAX. CONTINUOUS DISCHARGE CURRENT: | 2A |
| REC. DISCHARGE CUT OFF: | 2.8V |
| INTERNAL IMPEDANCE: | ≤220 mΩ |
| EXP. CYCLE LIFE: | >500 CYCLES > 70% OF INITIAL CAP. (0.5C/0.5C) |

CELL PROTECTION:

| | |
|---------------------------|---|
| OVER CHARGE DETECTION: | 4.25 ±0.03V (0.8 TO 1.2 SEC. DELAY, RESUME 4.19±0.03V) |
| OVER DISCHARGE DETECTION: | 2.80 ±0.05V (130 to 160msec. DELAY, RESUME 3.0±0.05V) |
| OVER CURRENT DETECTION: | 4.0A to 7.0A (8 to 15msec. DELAY) |

3. AMBIENT CONDITIONS

| | |
|-------------------------------|--|
| TEMPERATURE RANGE: | |
| CHARGE: | 0 TO +45°C |
| DISCHARGE: | -10 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: | 60 ±25%RH |

4. ENVIRONMENTAL AND SAFETY

PLEASE FOLLOW GlobTek, Inc. HANDLING AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.

5. CELL REGULATORY APPROVALS:

| | |
|-----|--------|
| UL: | UL1642 |
|-----|--------|

6. BATTERY PACK APPROVALS:

| | |
|----------|---|
| RoHS: | COMPLIES WITH EU 2002/95/EC AND CHINA SJ/T 11363-2006 |
| CE Mark: | COMPLIES WITH 2013/56/EU EN61000-6-1:2007, EN61000-6-3:2007 |

| | |
|-----------------|---------------------------------|
| TRANSPORTATION: | PACK DESIGNED TO MEET un38.3 |
| UL: | Design to meet UL2054, IEC62133 |

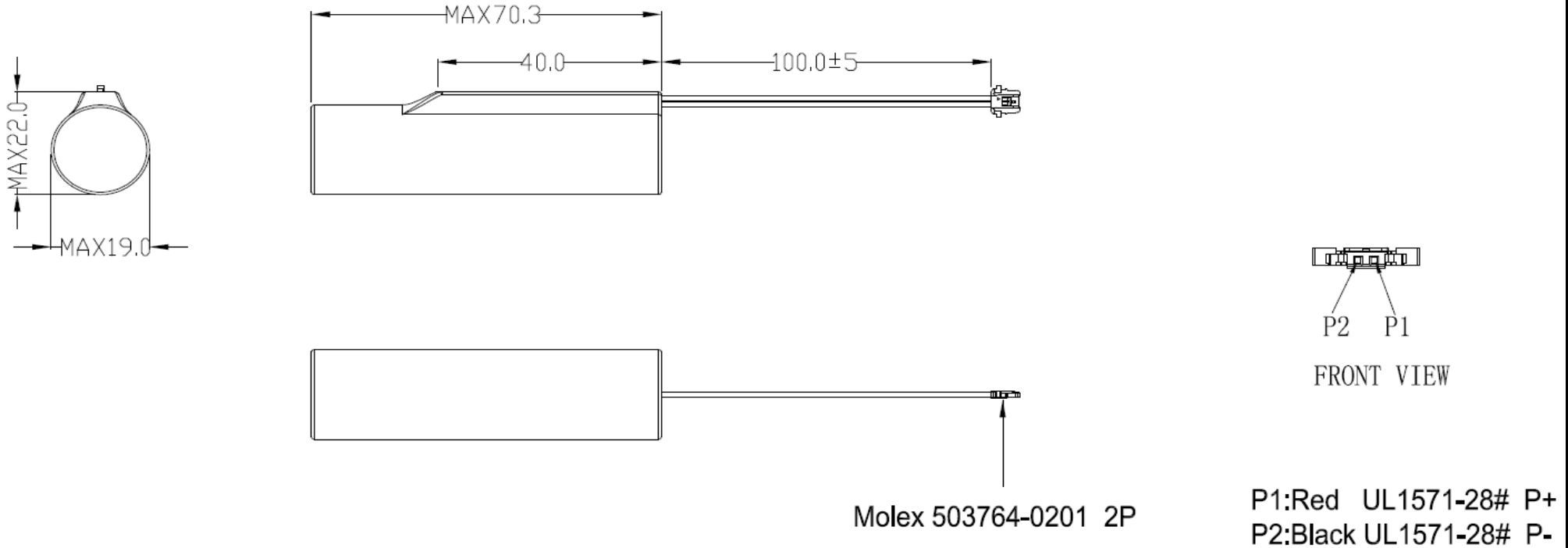


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6. MECHANICAL:

| | |
|--------------------------|-----------------------------|
| DIMENSIONS: | 70.3(mm) x 19(mm) Max. |
| SHRINK WRAP: | Blue PVC with GlobTek Brand |
| WIRE TYPE: | UL1571- 28AWG |
| WIRE LENGTH: | 100mm +/- 5.0 |
| WIRE POLARITY: | RED POSITIVE (+) |
| WIRE POLARITY: | BLACK NEGATIVE (-) |
| STRIP LENGTH: | CUT BLUNT |
| 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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Drawing Title: Li-Ion Battery Pack, 1S1P, 3350mAh

MODEL NO: 11NR19/73

PART NO: BL3500C1865001S1PCMK

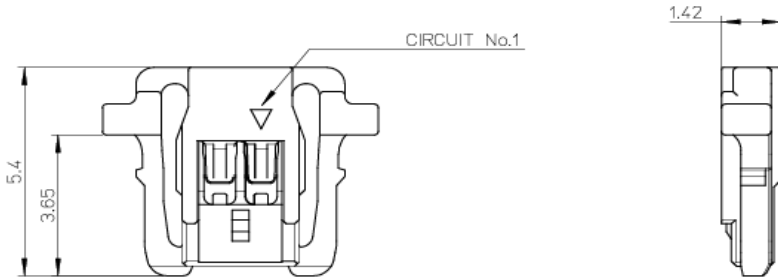
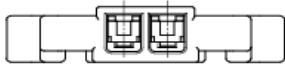
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7. OUTPUT CONNECTOR:

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



| EQUIVALENT | Y / N | |
|-------------------------|-------|--------------------------|
| PLUG TYPE | Y | Molex 503764-0201, 2 POS |
| OVER MOLD ORIENTATION | Y | with overmold |
| CONTACTS | Y | Molex 503765 (2 req'd) |
| PIN 1 | Y | RED(+) |
| PIN 2 | Y | BLACK(-) |
| ADDITIONAL REQUIREMENTS | | N/A |

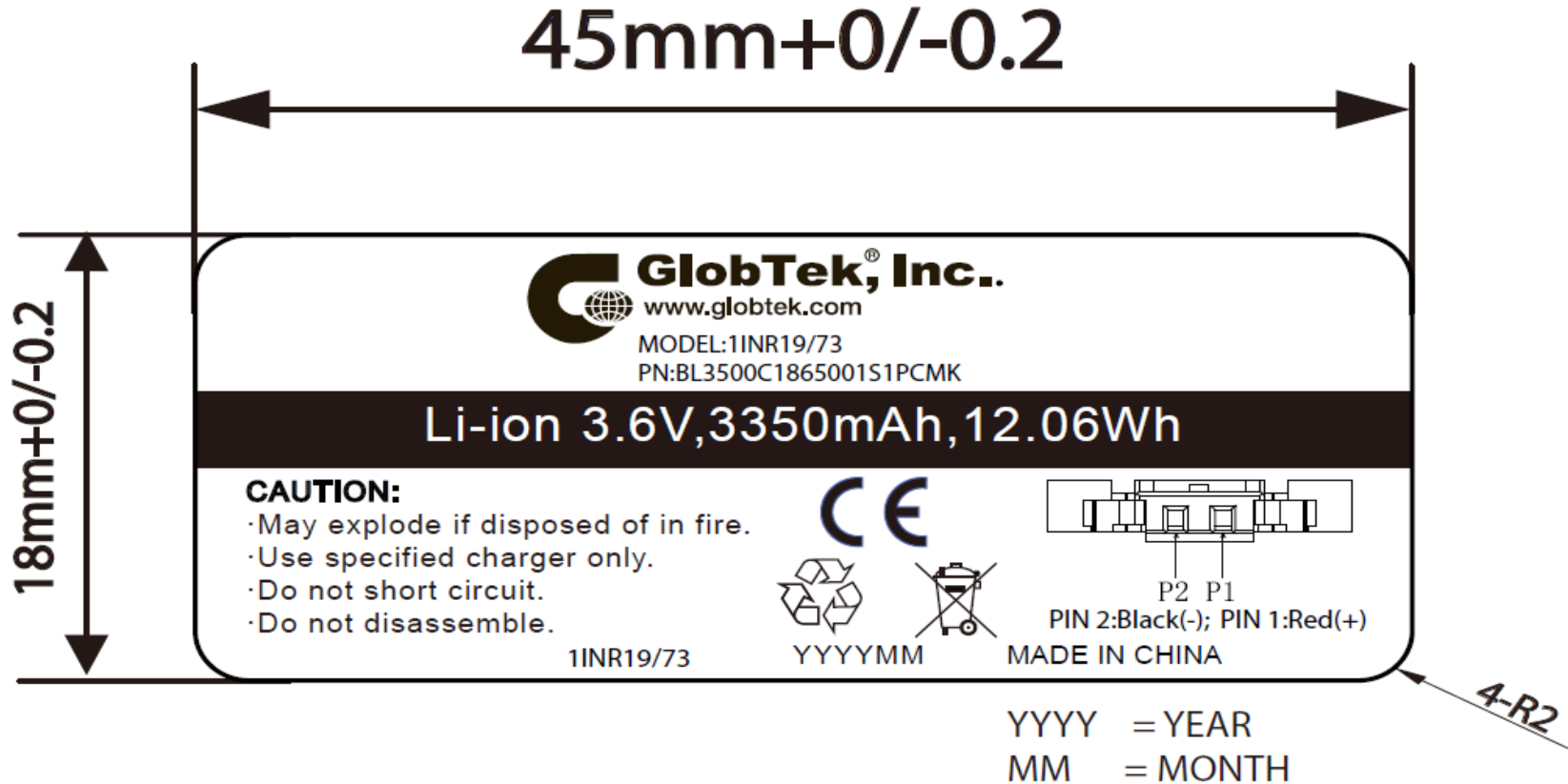
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8. LABEL:

| | |
|--------------------------|---------|
| MATERIAL: | TBD |
| BACKGROUND COLOR: | WHITE |
| TEXT COLOR: | BLACK |
| LABEL WIDTH: (mm) | 45.0 mm |
| LABEL HEIGHT: (mm) | 18.0 mm |
| ADDITIONAL REQUIREMENTS: | N/A |



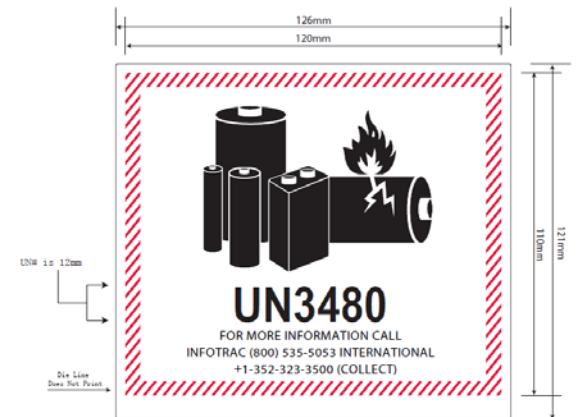
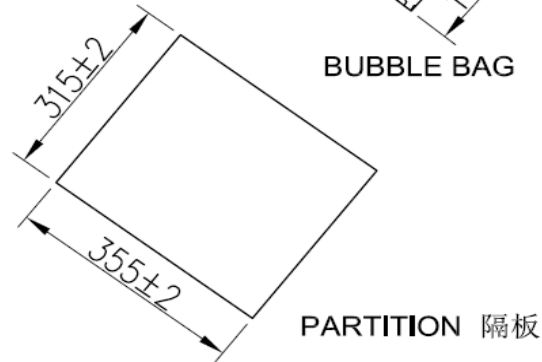
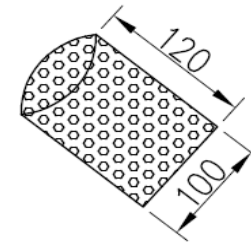
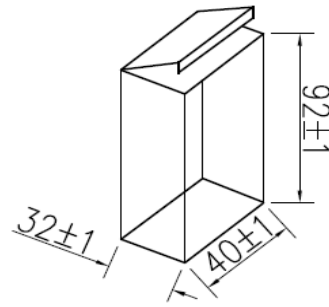
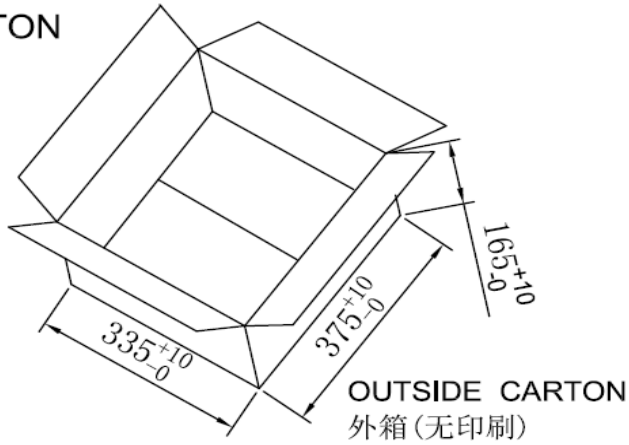
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9. PACKAGING:

| | |
|----------------------|---------------|
| PE BAG SIZE | 120*100mm |
| CARTON SIZE: | 335*375*165mm |
| QUANTITY PER CARTON: | 128pcs |
| G.W. | TBD |

128 PCS/CARTON



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