

POWER-XTRA

Model : Power-Xtra Itermec CN50 3.7V 3900 Mah Li-ion Battery

Ver:1.0 NO: 900.601.503.047

PX-CN50 Battery Pack Spec

Model : PX-CN50
Cell Type : 103450 ()
Cell Configuration : 1S2P
Nominal Voltage : 3.7V
Nominal Capacity : 3600mAh

Draft:

Chun Qi Zeng

Approved:

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Revision History

| Revision | Date | Editor | Contents |
|----------|------------|-------------|------------|
| 0.0 | 2016-02-29 | ChunQi Zeng | New Design |
| | | | |
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| | | | |

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1. Application

POS

2. Basic Information

Description: Rechargeable Lithium ion battery pack

Cell Type: 103450

Chemistry: Lithium ion

Cell configuration: 2P1S

Voltage Nomina 3.7V

Capacity Nominal: 3600mAh

Protection:

- A. Over Charge Protection
- B. Over Discharge Protection
- C. Over Current Protection
- D. Short Protection

3. Electrical Characters

| | |
|---------------------------|--------------------|
| Charging Method | CC-CV |
| Charging Voltage | $4.28 \pm 0.5V$ |
| Over Charging Protect | $4.250 \pm 0.025V$ |
| Standard Charging Current | 1.5A |
| Max. Charging Current | 2.0A |

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| | |
|--------------------------------|---------------------|
| Cut-off Charging Current | 72mA (0.02C) |
| Standard Discharging Current | 720mA (0.2C) |
| Max. Discharging Current | 2.0A |
| Discharging cut-off Voltage | 2.8V |
| Over Discharging Protect | 2.8V ± 0.06V |
| Internal Resistance | <250mOhm |
| Standard Charge Temperature | 0~45°C |
| Standard Discharge Temperature | -20~60°C |
| Storage Humidity | 65%RH not condensed |

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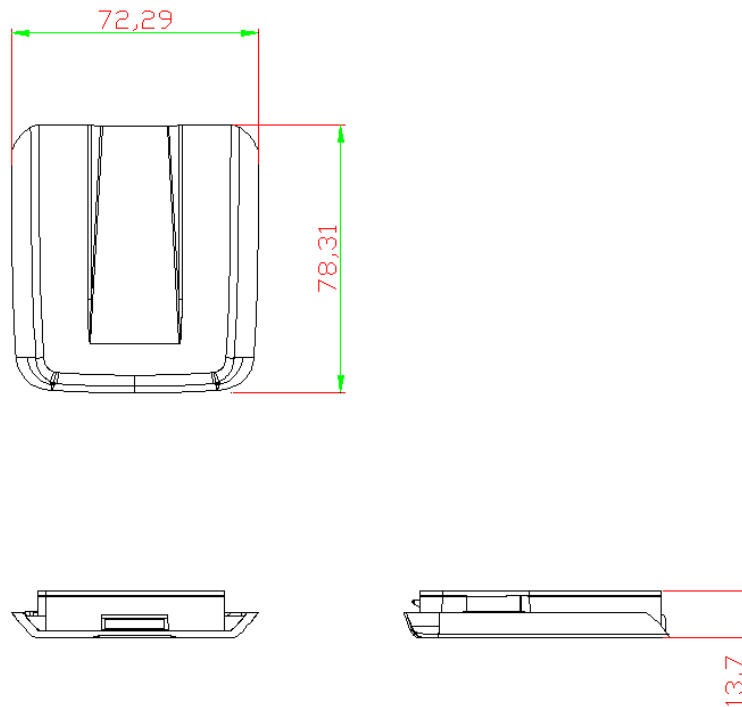
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4. Reliability Test Requirements

| | |
|-----------------------|-------------------------|
| Humidity Test | +60°C 85%RH for 24Hours |
| High Temperature Test | +85°C 1000Hours |
| Low Temperature Test | -25°C 1000Hours |

5. Mechanical Drawings

5.1. Drawing of Outline



(unit) :mm

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5.2.Drawing of Terminal



5.3.Drawing of Label

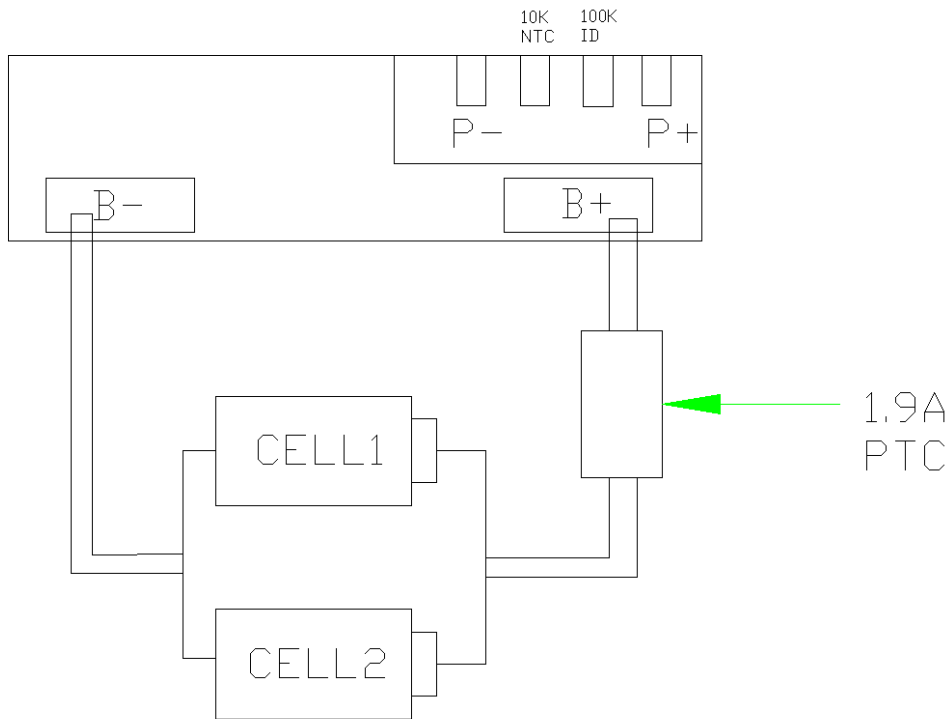


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6. Block Diagram



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7. \Test Item

| Test Items | | Rang | Sample 1 | Sample 2 | Sample 3 |
|------------------|--|------------------------------|----------|----------|----------|
| Basic Function | Charging | OK | | | |
| | Discharging | OK | | | |
| | Over Current Protect | 2-5A | | | |
| | Internal Resistance | <250mOhm | | | |
| | Short Circuit | Recoverable (OK / NG) | | | |
| | Integrated Resistor (if There is) 18-33℃ | 7K~12K Ohm | | | |
| | ID | 95K-105K | | | |
| Size 尺寸 | Length | <73mm | | | |
| | Width | <78mm | | | |
| | Thickness | <13.7mm | | | |
| Performance Test | Capacity | >3500mAh | | | |
| | Over Charge Voltage | 4.35V~4.45V (single cell) | | | |
| | Over Discharge Voltage | 2.5V-2.7V (single cell) | | | |
| | Welding Test | >15N | | | |
| | | | | | |

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8. Pack

- 1, (9*13CM) ;
- 2, (82*75*15)mm;
- 3, 90PCS, 10KG;

