

Customer _____

Part name _____

Model No HPC1550 _____

Serial No _____

Produce No _____

| | | | |
|--------------------|--|-------------------|--------------|
| Approved by | | Drafted by | Wenfei liang |
| Checked by | | Signed by | Xiaojun nie |
| Prepared by | | Valid Date | 2018-11-22 |

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1.Scope

This product specification describes the mechanical design and performance of HPC-1550 and its use in enhanced pulse-type batteries.

2.Performance Data (For batteries stored at RT for one year or less)

| | |
|----------------------------------|------------------------|
| System | Hybrid Pulse Capacitor |
| Version | HPC1550 |
| Nominal voltage | 4V |
| Nominal capacity | 840AS @ 3.67V |
| | 1290AS @ 3.90V |
| | 1500AS @ 4.10V |
| Nominal discharge current | 250mA |
| Max.continuous discharge current | 2000mA |
| Pulse current capability | 5000mA |
| Discharge end voltage | 2.5V |
| Max.charge voltage | 4.1V |
| Nominal charge current | 100mA |
| Temperature range | -40°C~+85°C |
| Cell impedance @ 1kHz,RT | max. 100mΩ |
| Nominal energy | max. 1.0Wh |
| Length | max. 50.5mm |
| Diameter | max. 15.5mm |
| Weight | 20g |

4. Shelf life at different storage temperature to 80% of initial capacity

| Temperature | HPC | HPC in IOT battey |
|-------------|---------|-------------------|
| RT | 3 years | 10 years |
| 60°C | 4 weeks | 7 years |
| 80°C | 1 weeks | At least 1 years |

5. Safety:

Short circuit at 22°C,55°C and 85°C

Temperature test up to 150°C

Crush

Impact

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Nail penetration

Over charge up to 0.5A , 12V

Over discharge (300%) up to 2A

6. Warning:

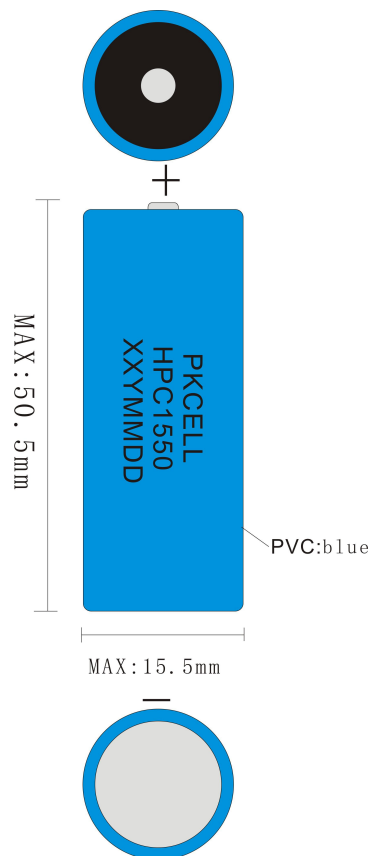
Fire,explosion, and severe burn hazards.

do not disassemble, heat above 100°C,

short circuit, incinerate or expose contents to water.

Do not charge above 4.1V

7. Dimension:



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