

Customer _____

Part name _____

Model No HPC1520 _____

Serial No _____

Produce No _____

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Prepared by		Valid Date	2018-11-22

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1.Scope

This product specification describes the mechanical design and performance of HPC-1520 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	HPC1520
Nominal voltage	4V
Nominal capacity	140AS @ 3.67V
	260AS @ 3.90V
	325AS @ 4.10V
Nominal discharge current	50mA
Max.continuous discharge current	500mA
Pulse current capability	2000mA
Discharge end voltage	2.5V
Max.charge voltage	4.1V
Nominal charge current	20mA
Temperature range	-40°C~+85°C
Cell impedance @ 1kHz,RT	max. 250mΩ
Nominal energy	max. 0.3Wh
Length	max. 20.5mm
Diameter	max. 15.5mm
Weight	7.4g

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 & over discharge (200% at currents up to 0.5A)

UL1642 , IEC62133 , UN38.3

6. Warning:

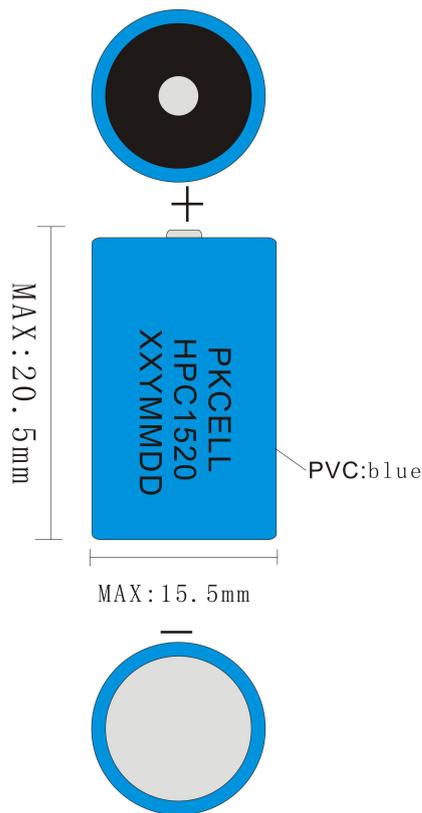
Fire, explosion, and severe burn hazards.

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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