



Model:HPC1550

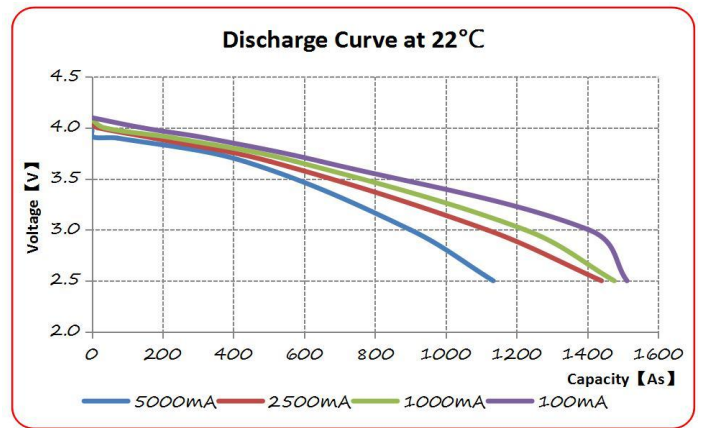
Performance Data

(For batteries stored at RT for one year or less)

System	Hybrid Pulse Capacitor
Model	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℃~+85℃
Cell impedance @ 1kHz,RT	max. 100mΩ
Nominal energy	max. 1.0Wh
Length	max. 50.0±0.3mm
Diameter	max. 15.1mm
Weight	20.0g



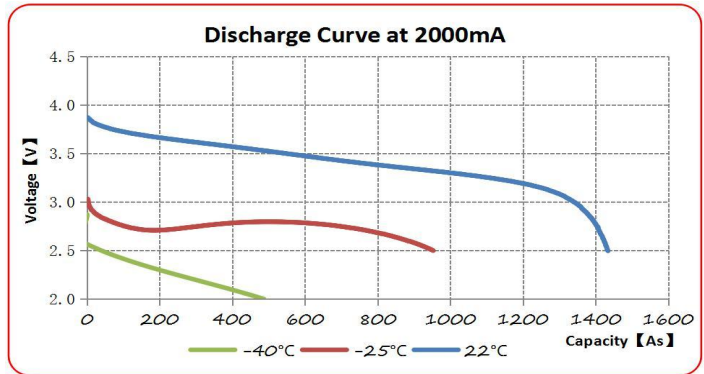
Discharge Curve at 22℃(@4.1V)



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

Temperature	HPC	HPC in IOT Battery
RT	3 years	10 years
60℃	4 weeks	7 years
80℃	1 weeks	At least 1 years

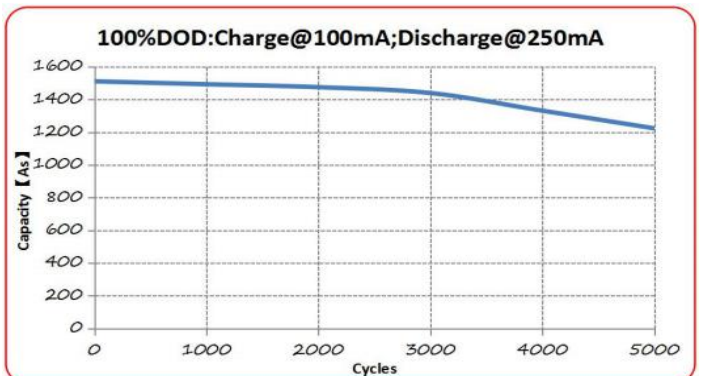
Discharge Curve at 2000mA



Safety:

- . Short circuit at 22℃,55℃ and 85℃
- . Temperature test up to 150℃
- . Crush
- . Impact
- . Nail penetration
- . Over charge & over discharge (200% at currents up to 1A)
- . **UL1642 , IEC62133 , UN38.3**

Cycling Performance

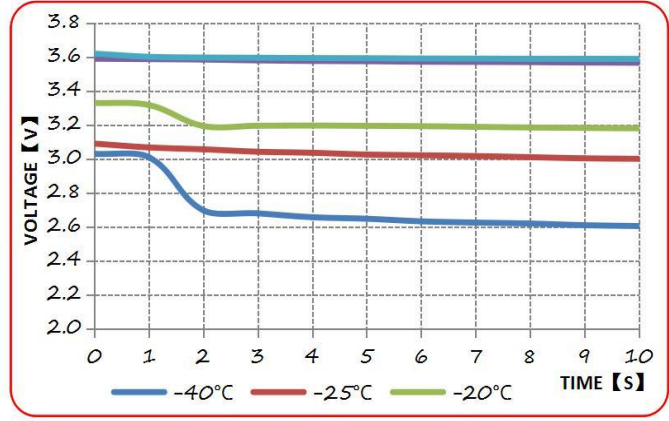
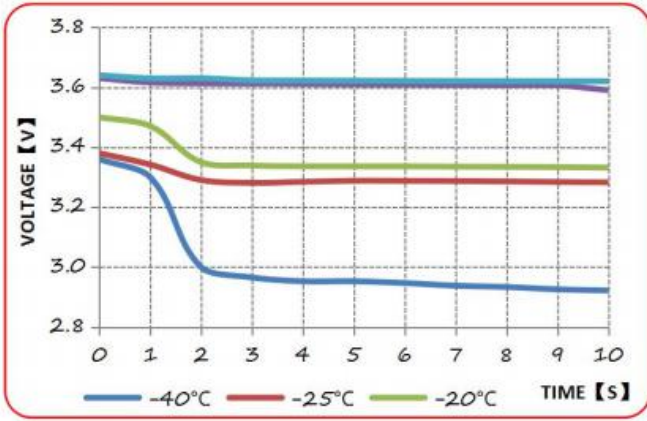


Warning:

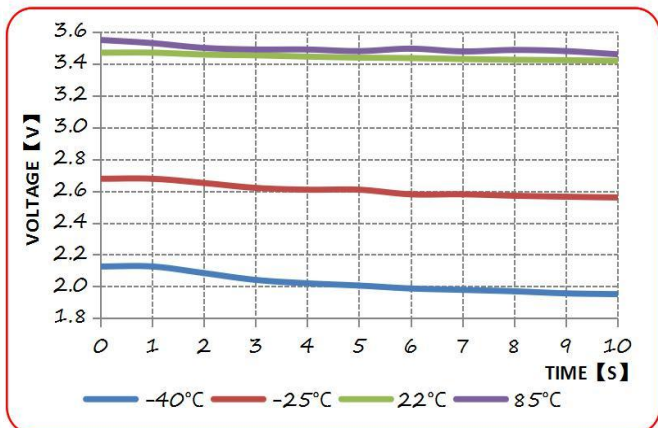
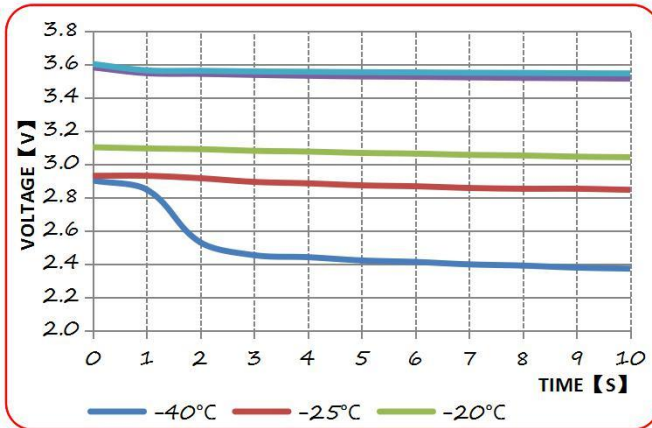
- . Do not fire, explosion, and severe burn hazards.
- . Do not disassemble, heat above 100℃,
- . Do not short circuit, incinerate or expose contents to water.
- . Do not charge above 4.1V

Performance data

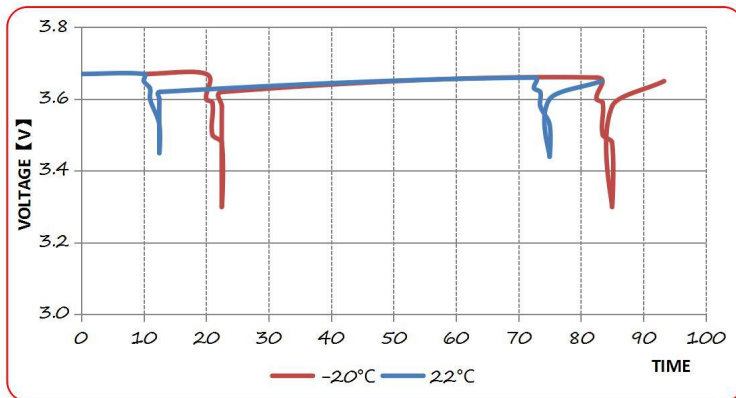
Voltage curves for HPC1550 at Li/SOCI2 potential (3.67 V),350mA Voltage curves for HPC1550 at Li/SOCI2 potential (3.67 V), 750mA



Voltage curves for HPC1550 at Li/SOCI2 potential(3.67V), 1200mA Voltage curves for HPC1550 at Li/SOCI2 potential(3.67V), 2000mA



Voltage curves for HPC1550 at Li/SOCI2 potential (3.67 V), discharge data:GPS+GSM(1.~80mA,60S;2.~200mA,90S;3.~1500mA,0.05S;4.~25µA,3600S;5.CYCLES)



Note: Any representations in this brochure concerning performance, are for informational purposes only and are not construed as warranties either expressed or implied of future performance.