



Model:HPC1520

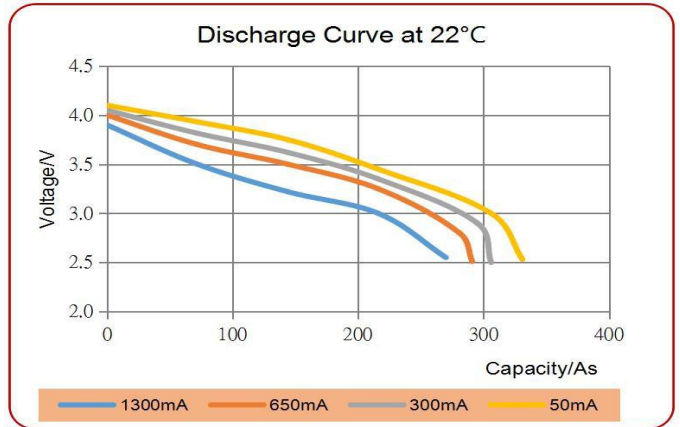
Performance Data

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

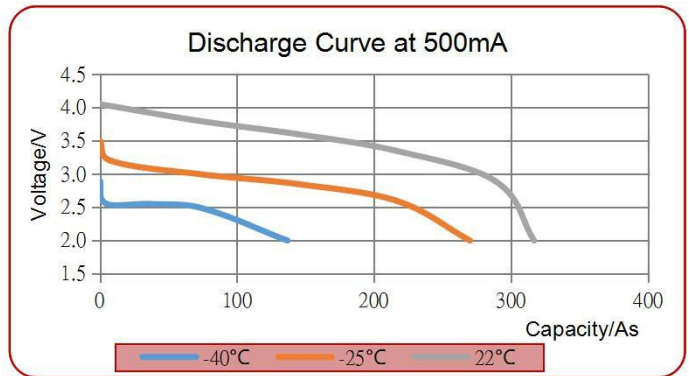


System	Hybrid Pulse Capacitor
Model	HPC1520
Nominal voltage	4V
Nominal capacity	140AS @ 3.67V
	260AS @ 3.90V
	325AS @ 4.10V
Nominal discharge current	50mA
Max.continuous discharge current	500mA
Pulse current capability	2000mA
Discharge end voltage	2.5V
Max.charge voltage	4.1V
Nominal charge current	20mA
Temperature range	-40℃~+85℃
Cell impedance @ 1kHz,RT	max. 250mΩ
Nominal energy	max. 0.3Wh
Length	max. 20.0mm
Diameter	max. 15.1mm
Weight	9.0g

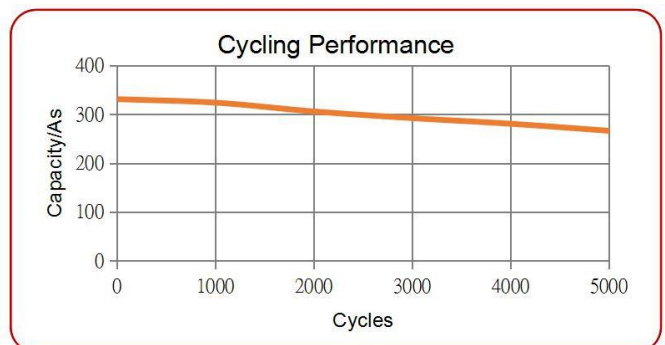
Discharge Curve at 22℃ (@4.1V)



Discharge Curve at 500mA



Cycling Performance



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

Safety:

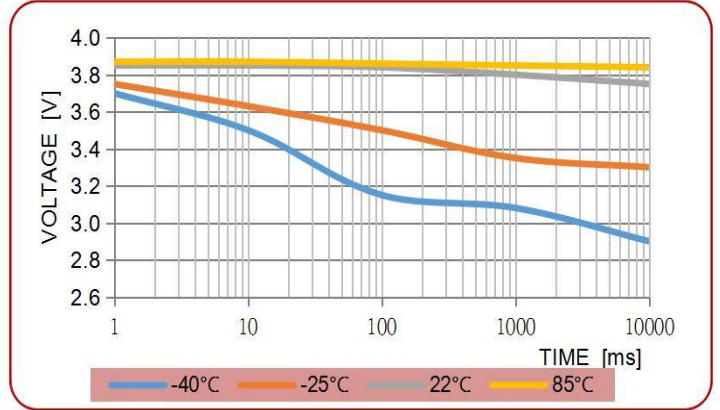
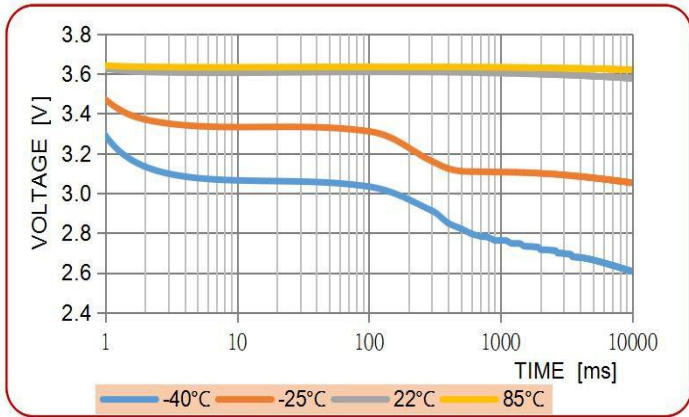
- . Short circuit at 22℃,55℃ and 85℃
- . Temperature test up to 150℃
- . Crush
- . Impact
- . Nail penetration
- . Over charge & over discharge (200% at currents up to 1A)
- . **UL1642 , IEC62133 , UN38.3**

Warning:

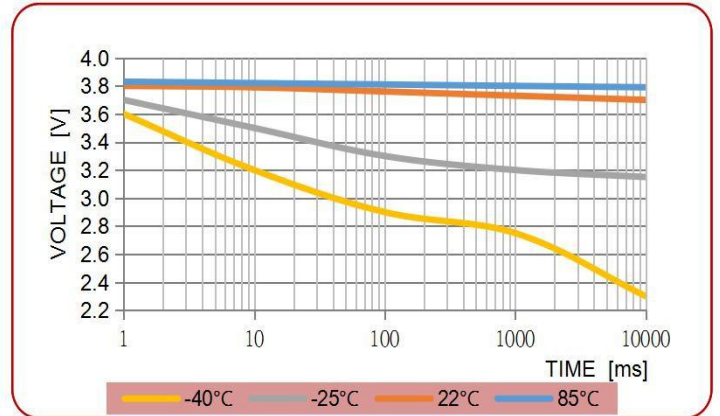
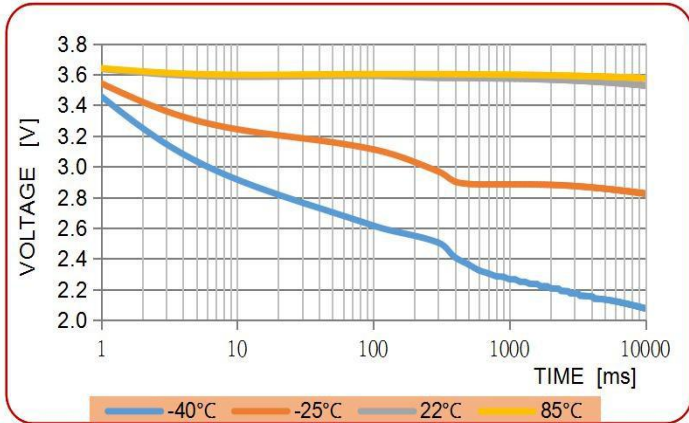
- . Do not fire,explosion, and severe burn hazards.
- . Do not disassemble, heat above 100℃,
- . Do not short circuit, incinerate or expose contents to water.
- . Do not charge above 4.1V

Performance data

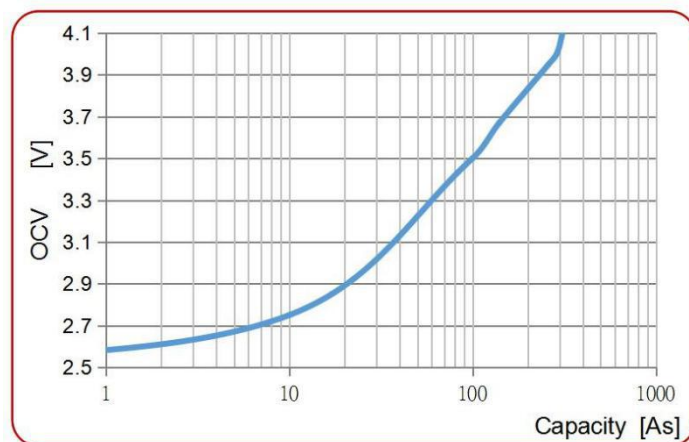
Voltage curves for HPC1520 at Li/SOCI₂ potential (3.67 V), 200mA Voltage curves for HPC1520 at Li/SO₂Cl₂ potential (3.90 V), 200mA



Voltage curves for HPC1520 at Li/SOCI₂ potential (3.67 V), 350mA Voltage curves for HPC1520 at Li/SO₂Cl₂ potential (3.90 V), 350mA



Available capacity vs. OCV for HPC1520 (at RT, 50 mA discharge)



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.