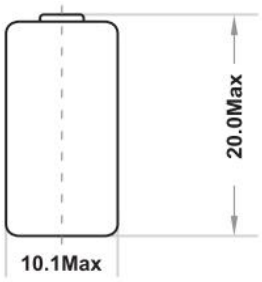
Battery HPC(Hybrid Pulse Capacitor) FOR PULSE-PLUS
Model:HPC1020

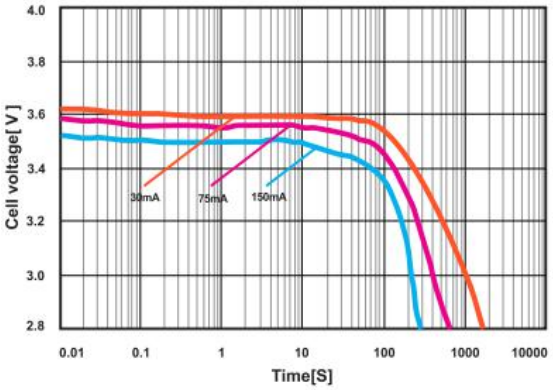
Performance Data

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

System	**Hybrid Pulse Capacitor**
Model	**HPC1020**
Nominal voltage	**4V**
Nominal capacity	**50AS @ 3.67V**
	85AS @ 3.90V
	110AS @ 4.10V
Nominal discharge current	**8mA**
Max.continuous discharge current	**250mA**
Pulse current capability	**800mA**
Discharge end voltage	**2.5V**
Max.charge voltage	**4.1V**
Nominal charge current	**8mA**
Temperature range	**-40℃~+85℃**
Cell impedance @ 1kHz,RT	**max. 350mΩ**
Nominal energy	**max. 0.12Wh**
Length	**max. 20.0mm**
Diameter	**max. 10.1mm**
Weight	**4.5g**



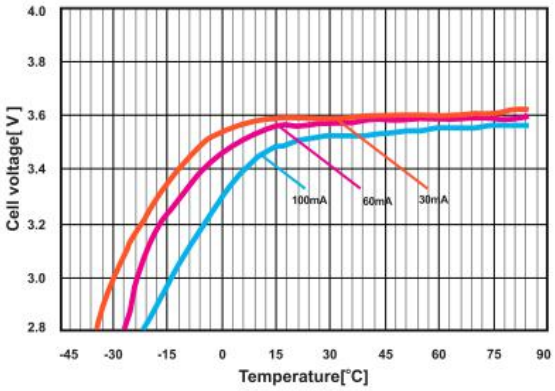
Voltage VS Pulse time



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

Temperature VS 1s Pulse cut-off voltage



Safety:

. Short circuit at 22℃,55℃ and 85℃

. Temperature test up to 150℃

. Crush

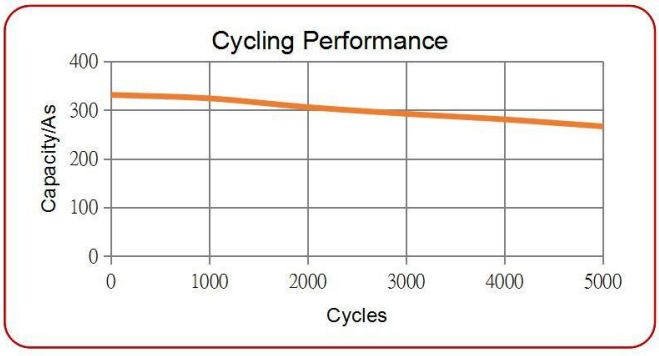
. Impact

. 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