

Technology	Feature
<ul style="list-style-type: none"> Lithium Ion Polymer Battery Li[NiCoMn]O₂-based Cathode Carbon-based Anode 	<ul style="list-style-type: none"> High Energy Density Long Life Cycle Minimal Self-Discharge Balanced Energy to Power Ratio

Product General Specification

Mechanical Characteristics

Model	C008	C020
Length	115 ± 1 mm (without terminal)	216 ± 1 mm (without terminal)
Width	102 ± 1 mm	130 ± 1 mm
Thickness	7.8 ± 0.2 mm	7.2 ± 0.2 mm
Weight	approx. 175 g	approx. 410 g

Electrical Characteristics

Nominal Voltage	3.6 V	3.6 V
Nominal Capacity	8.0 Ah	20.0 Ah
AC Impedance (1 KHz)	< 5 mΩ	< 3 mΩ
Specific Energy	165 Wh/Kg	180 Wh/Kg
Energy Density	315 Wh/L	365 Wh/L
Specific Power (DOD50, 10sec)	1400 Wh/Kg	1400 Wh/Kg
Energy Density (DOD50, 10sec)	2800 W/L	2800 W/L

Operating Conditions

Charge Conditions :

Recommended Charge Method	CC/ CV	CC/ CV
Maximum Charge Voltage	4.2 V	4.2 V
Recommended Charge Current	0.5 C Current	0.5 C Current
Maximum Charge Current	1.0 C Current	1.0 C Current

Discharge Conditions :

Recommended Voltage Limit for Discharge	3.0 V	3.0 V
Lower Voltage Limit for Discharge	2.5 V	2.5 V
Recommended Discharge Current	up to 3 C Current	up to 3 C Current
Maximum Discharge Current (Continuous)	5 C Current	5 C Current
Maximum Discharge Current (Peak < 10 sec)	10 C Current	10 C Current

Operating Temperature :

Recommended Charge Temperature	-30 °C / + 50 °C	-30 °C / + 50 °C
Storage Temperature	0 °C / + 40 °C	0 °C / + 40 °C
	-30 °C / + 50 °C	-30 °C / + 50 °C

Cycle Life at 25 °C (1C Charge / 1C Discharge DOD100%)	1000 Cycles to 80% Nominal Capacity	1000 Cycles to 80% Nominal Capacity
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ePLB C020 Performance

