



Sonata[®] 5300 Rechargeable Lithium-ion Cell

Boston-Power's Sonata 5300 is a high performance lithium-ion rechargeable cell. Its exceptional energy density, industry-leading cycle life, fast charge capability, and industry leading safety features make the Sonata 5300 an ideal solution for industrial, medical, military, notebook computer sensor, and other portable power applications.

Specifications



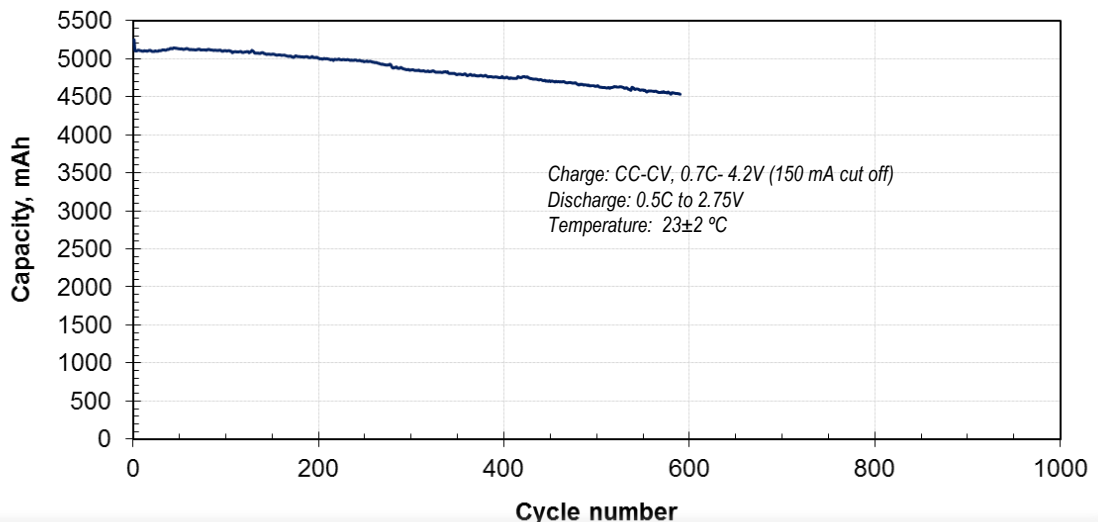
Certifications

UN 38.3, UL1642, IEC62133, Directive 2006/66/EC,
ROHS 2002/95/EC
In process: Nordic Ecolabel

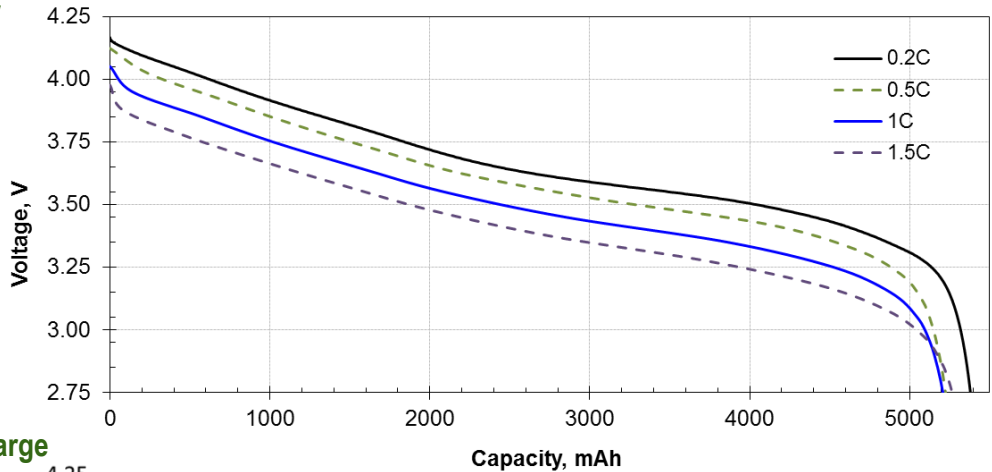
Nominal capacity ¹	5300 mAh	
Nominal energy ¹	19.3 Wh	
Nominal voltage	3.65 V	
Energy density	Gravimetric	202 Wh/kg
	Volumetric	490 Wh/L
Nominal cell impedance (1kHz, AC)	23 mΩ	
Cycle life to 80% capacity	>1000 cycles	
Standard charging method	Constant current (CC)	3.7A (0.7C) to 4.2V
	Constant voltage (CV)	4.2V to 50 mA
Recommended fast charge	8.0A (1.5C) to 4.2V	
Nominal cell weight	95 g	
Operating temperature	Charge	-20 to 60°C
	Discharge	-40 to 70°C
Storage temperature	-40 to 60°C	

¹ Standard discharge 0.2C to 2.75 V

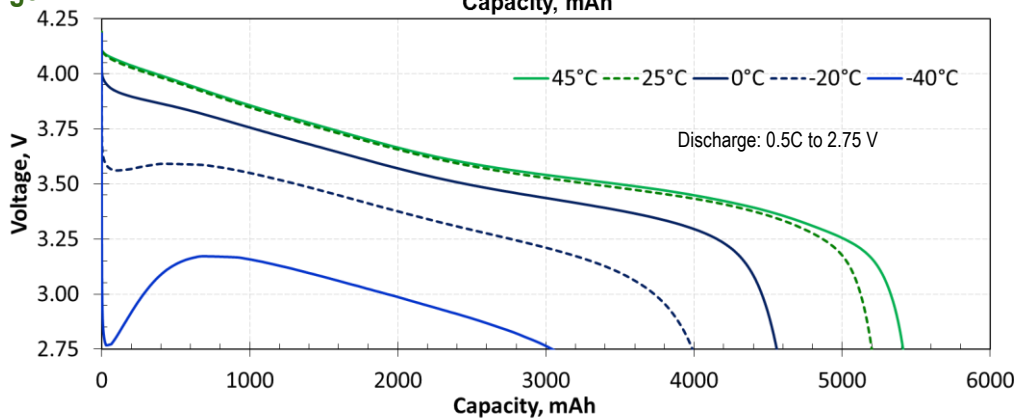
Cycle Life at 100% Depth of Discharge (DOD)



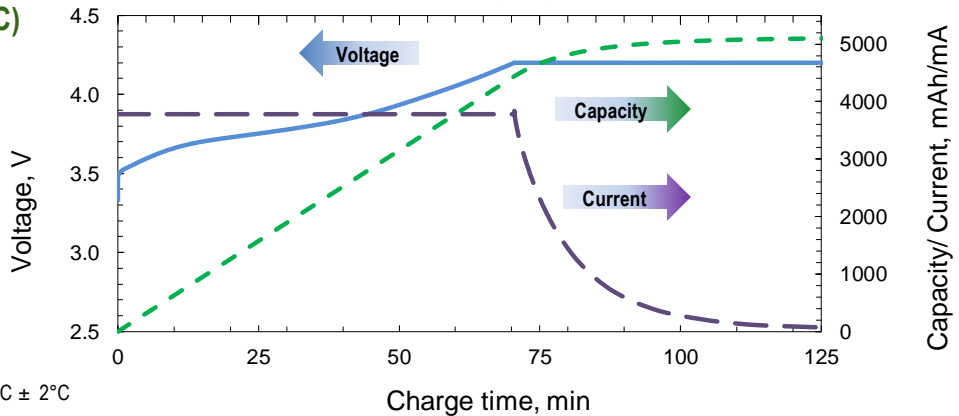
Discharge Capacity



Temperature Discharge Curve (0.5C)



Charge Curve (0.7C)



Temperature: 23°C ± 2°C
Standard Charge

BPI.DS.SNT5300_0312

BOSTON-POWER DATA SHEET: SONATA 5300

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Performance may vary depending on, but not limited to cell usage and application. If cells are used outside specifications, performance may diminish. All specifications are subject to change without notice. Some data reflects expected performance for product in development. All information provided herein is believed, but not guaranteed to be accurate.

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