



Swing® 5300 Rechargeable Lithium-ion Cell

Boston-Power's Swing 5300 offers the highest usable energy density combined with a longer cycle life at broad operating temperatures and unmatched safety features. It is ideal for a wide range of applications including Battery Electric Vehicles (BEVs), Plug-in Hybrid Electric Vehicles (PHEV), Light Commercial Vehicles (LCV), Neighborhood Electric Vehicles (NEV), and Stationary Energy Storage.

Specifications

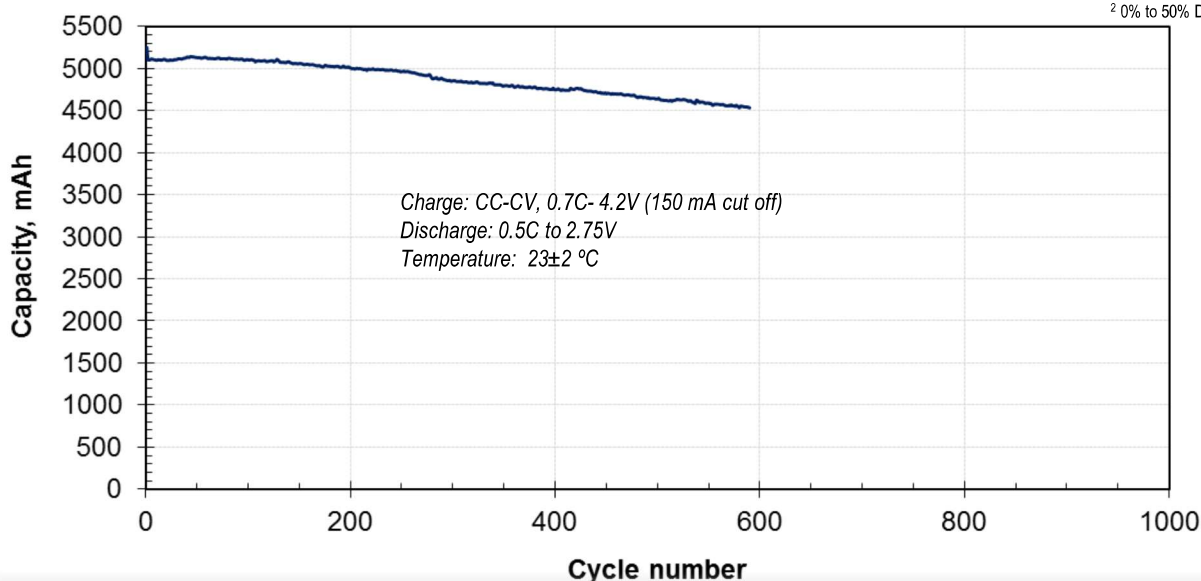


Nominal capacity ¹		5300 mAh
Nominal energy ¹		19.3 Wh
Nominal voltage		3.65 V
Energy density	Gravimetric	207 Wh/kg
	Volumetric	490 Wh/L
Nominal cell impedance		15.5 mΩ
Cycle life (0.5C discharge at 23°C)	100% DOD	>1000 cycles
	90% DOD	>2000 cycles
	80% DOD	>3000 cycles
Max continuous discharge rate (0 -100% SOC)		13 A
Allowable 10s pulse capability ²		1000 W/kg
Standard charging method	Constant current (CC)	3.7A (0.7C) to 4.2V
	Constant voltage (CV)	4.2V to 50 mA
Max charge rate (continuous)		10.6 A
Nominal cell weight		93.5 g
Operating Temperature	Charge	-20 to +60 °C
	Discharge	-40 to +70 °C
Storage Temperature		-40 to +60 °C

Certifications

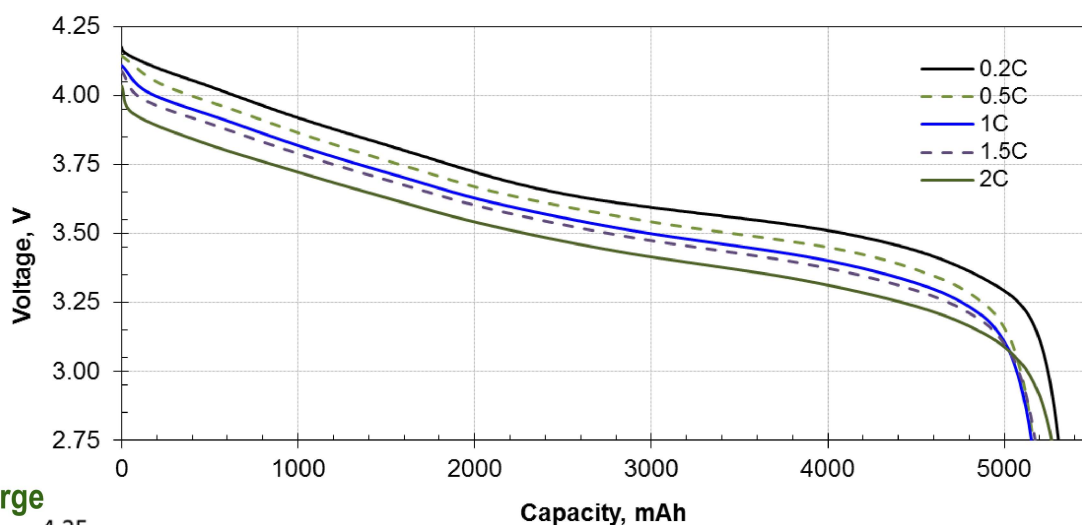
UN 38.3, UL1642, IEC 62133, ROHS 2002/95/EC
In Process: Nordic Ecolabel

Cycle Life at 100% Depth of Discharge (DOD)

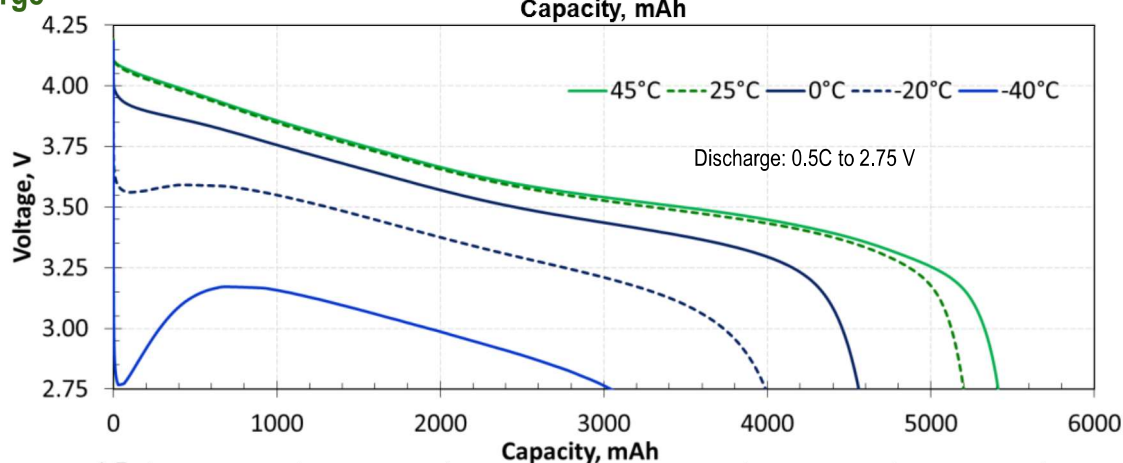


¹ Standard discharge 0.2C to 2.75 V
² 0% to 50% DOD

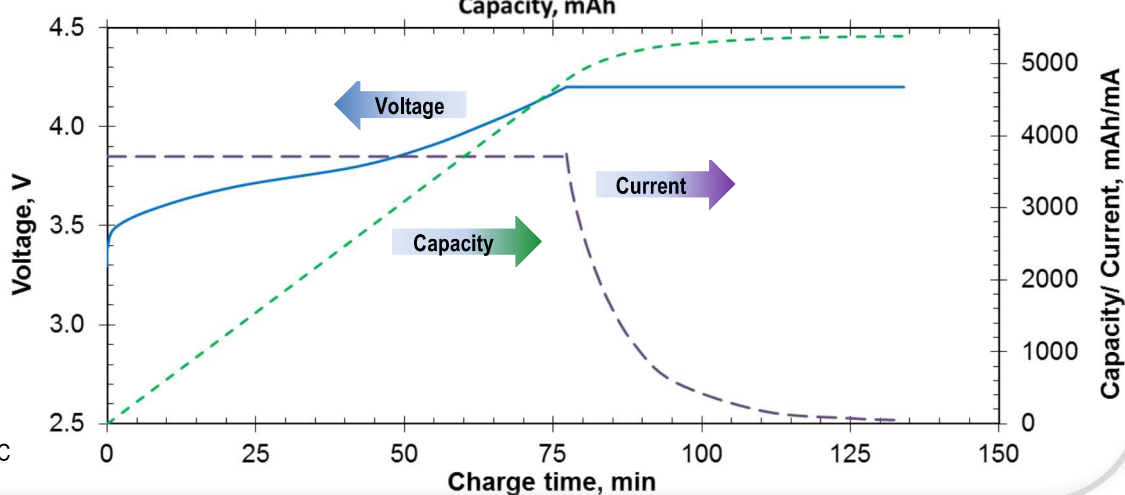
Discharge Capacity



Temperature Discharge Curve (0.5C)



Charge Curve (0.7C)



Temperature: 23°C ± 2°C
Standard Charge

BPI.DS.SWG5300_0312

BOSTON-POWER DATA SHEET: SWING 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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