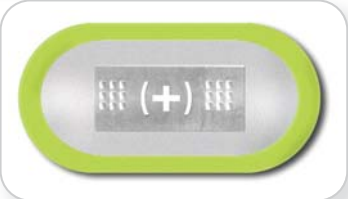
Swing™ 4400 Rechargeable Lithium-ion Cell

Boston-Power's Swing 4400 is a high energy density, long life and reliable lithium-ion rechargeable cell which is ideal for Plug-In Hybrid Electric Vehicle (PHEV), Battery Electric Vehicle (BEV) and Grid Storage applications.

Specifications



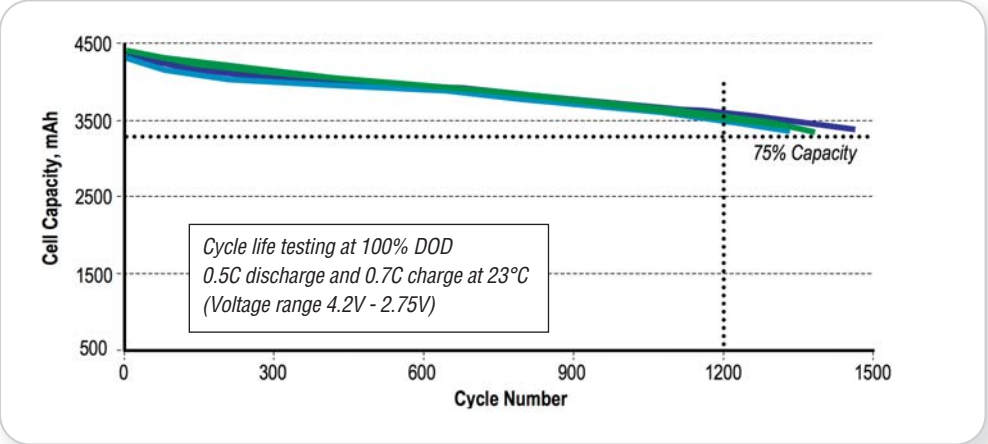
Nominal capacity		4400 mAh
Nominal voltage		3.7V
Energy density	Gravimetric	180 Wh/kg
	Volumetric	420 Wh/L
Power density		440 W/kg
Nominal cell impedance		17mΩ
Cycle life (0.5C discharge at 23°C)	100% DOD	>1000 cycles
	90% DOD	>2000 cycles
Max continuous discharge rate (0 -100% SOC)		12.0A
Allowable pulse capability (10s pulse)		1200 W/kg
Standard charging method (CC-CV)		3.1A (0.7C) to 4.2V
Max charge rate (continuous)		8.8A
10s pulse charge (>8A) and discharge (>20A) cutoff voltages		4.3V to 2.5V
Nominal cell weight		90g
Operating temperature*	Charge	-10 to 60°C
	Discharge	-40 to 70°C
Storage temperature*		-40 to 60°C

*Contact Boston-Power for specifics on operation and storage at temperature extremes.

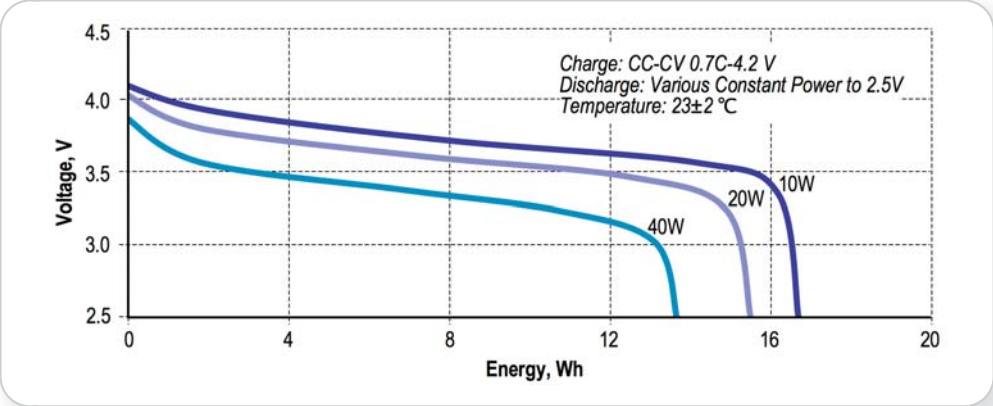
Certifications

UL 1642, UN 38.3, ROHS 2002/95/EC directive, Nordic Ecolabel license 330 011

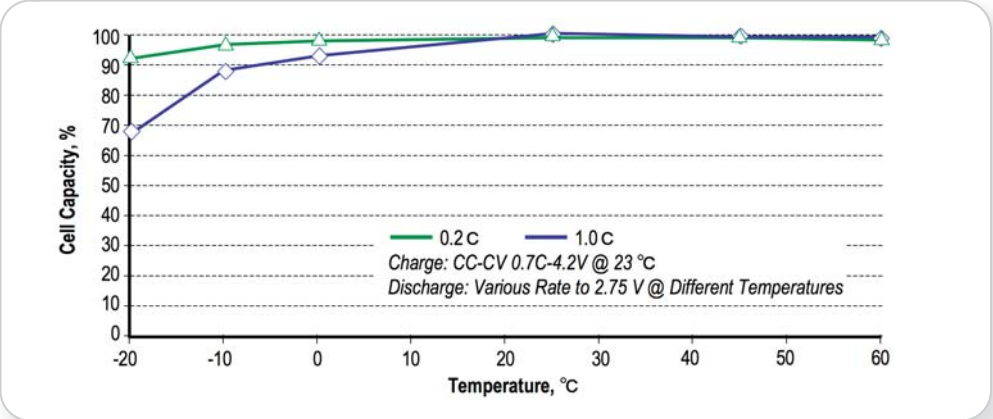
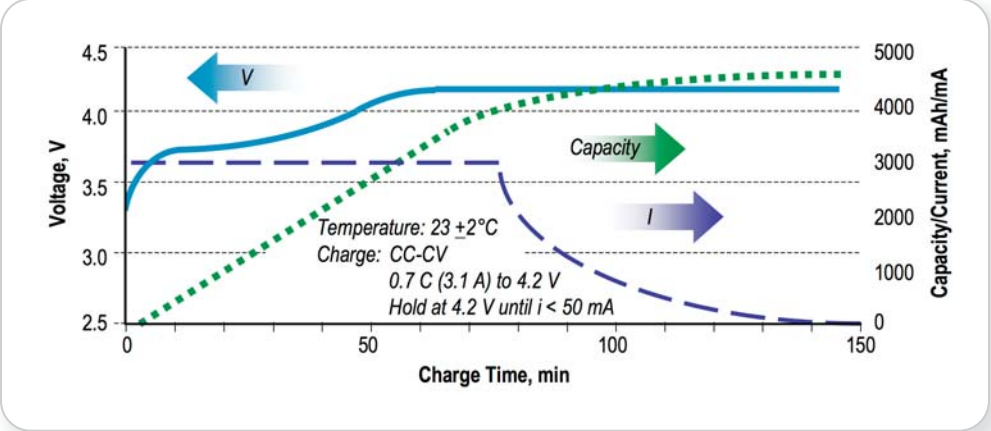
Cycle life at 100% depth of discharge (DOD)



Discharge capacity



Temperature performance



Charge curve (0.7C)