



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



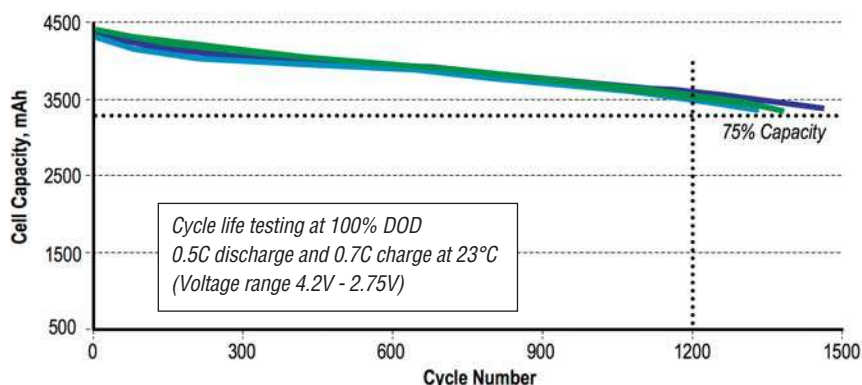
Nominal capacity		4000mAh
Nominal voltage		3.7V
Energy density	Gravimetric	180 Wh/kg
	Volumetric	420 Wh/L
Power density		440 W/kg
Nominal cell impedance		17mΩ
Cycle life (0.5C discharge at 23°C)	100% DOD	>1000 cycles
	90% DOD	>2000 cycles
Max continuous discharge rate (0 -100% SOC)		12.0A
Allowable pulse 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

Certifications

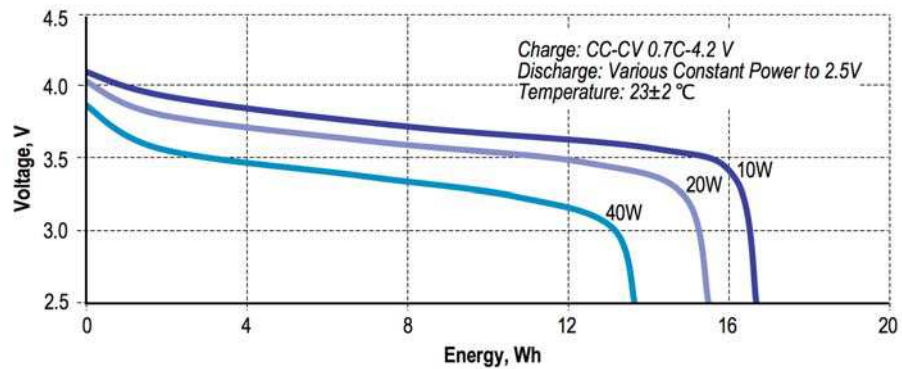
UL 1642, UN 38.3, ROHS 2002/95/EC directive, Nordic Ecolabel license 330 011

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

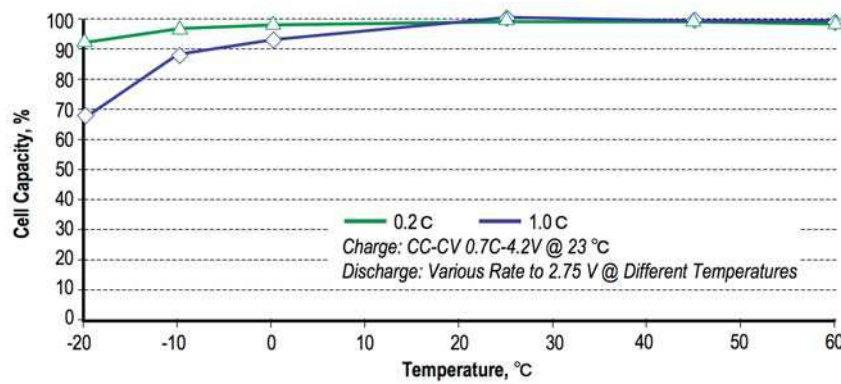
Cycle life at 100% depth of discharge (DOD)



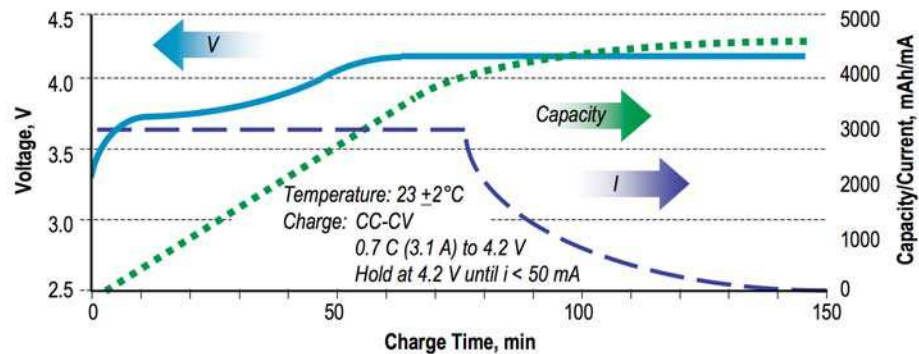
Discharge capacity



Temperature performance



Charge curve (0.7C)



BPI.DS.SWG4400_0410

BOSTON-POWER DATA SHEET: SWING 4400

www.boston-power.com

USA

Boston-Power, Inc.
2200 West Park Drive
Westborough, MA 01581-3961, USA
Phone: +1.508.366.0885

China

Boston-Power Battery (Shenzhen) Co., Ltd.
Jinrun Bldg., Tairan 9th Rd.,
CheGongMiao, Futian District,
Shenzhen 518040, China

Taiwan

Boston-Power Battery
(Taiwan) Co., Ltd.
89 Song Ren Road, Suite 11C
Taipei, 114, Taiwan

Performance may vary depending on, but not limited to cell usage and application. If cells are used outside of specifications, performance may diminish. All specifications are subject to change without notice. All information provided herein is believed, but not guaranteed, to be current and accurate.

©Boston-Power, Inc., 2010. All rights reserved. No portion of this material may be copied or reproduced, in any manner, without the express written consent of Boston-Power. Boston-Power®, the Boston-Power logo, Sonata® and Swing™ are all trademarks or registered trademarks of Boston-Power, Inc. which retains sole rights to their use.