

High Power Lithium-Ion Cell

LP2770112-7.5Ah

1. Scope

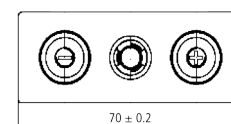
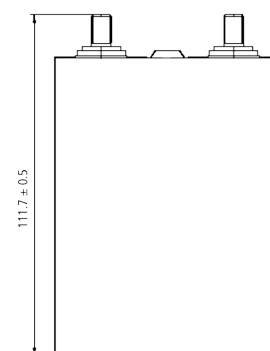
LISHEN High Power Cells are 100% automatically manufactured and produced under the strict quality control to ensure long life, secure usage and very high performance. To be able to combine cells in systems, our products are automatically sorted under the strongest restrictions to optimise performance of cell blocks and systems as well as to reduce cost for electronic balancing systems.

2. Application

LISHEN High Power Cells find their applications in all kind of mobile transport application, such as fork lifts, e-scooters, e-cars, e-busses as well as storage applications for small and high volume storage systems.

3. Specifications

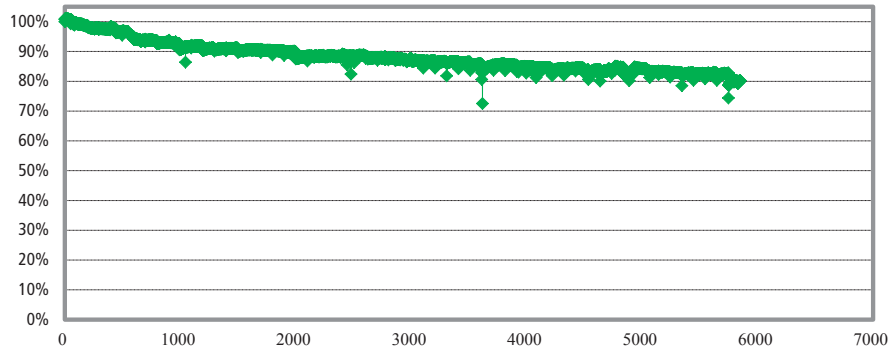
Item	Specification
Nominal Capacity	7.5 Ah
Average working Voltage	3.2 V
AC-Impedance	$\leq 1.3 \text{ m}\Omega$
charge	
- Standard Charge Method	CC/CV
- Current	1 C
- Voltage	3.65 V
- End Current	375 mA
- Maximum Charge Current	10 C, 15 C (10 s)
discharge	
- Standard Discharge Method	Constant Current (CC)
- Current	1 C
- End Voltage	2.0 V
- Maximum Discharge Current	25 C, 30 C (30 s)
Size	27 mm x 70 mm x 112 mm
Cycle life	2000 cycles at 100% DoD 3000 cycles at 80% DoD
Weight of Cell	$392 \pm 10 \text{ g}$
Max Operating Temperature Range	$-20^\circ\text{C} \sim +50^\circ\text{C}$
Storage Temperature	$-20^\circ\text{C} \sim +35^\circ\text{C}$



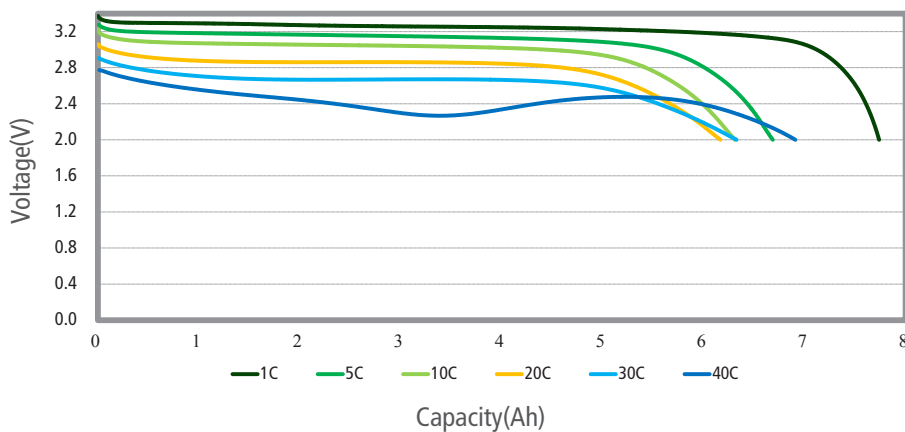
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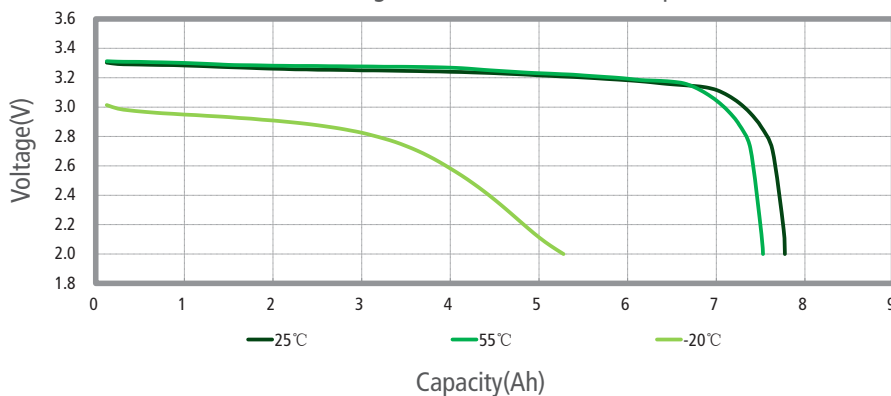
Cycle life @RT 1C Charge and Discharge



Different Rate Discharge Curve(LP2770112)



1C discharge character at different temperature



Applications

COMMERCIAL SOLUTIONS

- UPS Datacenter
- Telecom and IT backup
- Industrial material handling equipment

GOVERNMENT SOLUTIONS

- Military vehicles
- Military power grids
- GRID SOLUTIONS
- Frequency regulation
- Renewables storage integration
- Reserve capacity

TRANSPORTATION SOLUTIONS

Hybrid, plug-in hybrid and electric vehicle battery systems for:

- Commercial vehicles
- Off-highway vehicles
- Passenger vehicles

This document represents typical data. Performance may vary depending on use conditions and application.

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AX Power Solution GmbH

Hanauer Landstraße 291 A
D-60314 Frankfurt / Main

Tel: 069 - 3660 5813
Fax: 069 - 2729 2921

