

## High Power Lithium-Ion Cell

# LP44147185-78 Ah

### 1. Scope

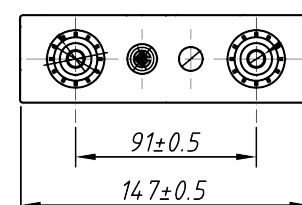
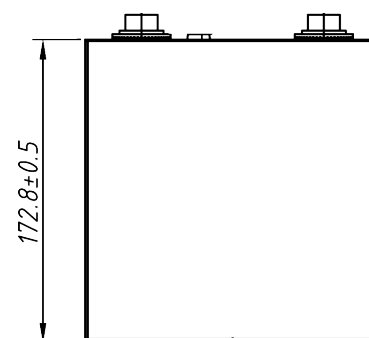
LISHEN High Power Cells are 100% automatically manufactured and produced under the strict quality control to ensure long life, secure usage and very high performance. To be able to combine cells in systems, our products are automatically sorted under the strongest restrictions to optimise performance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

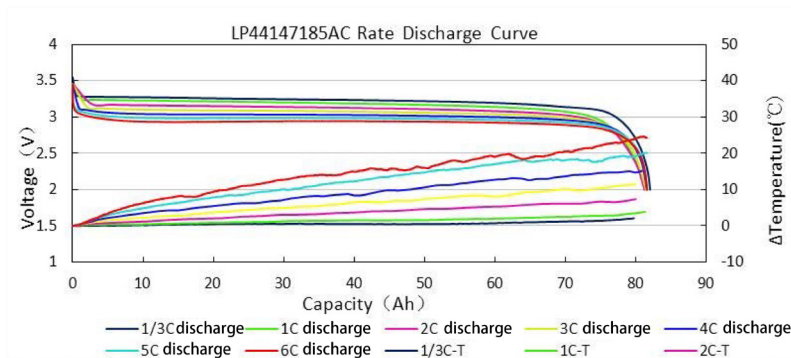
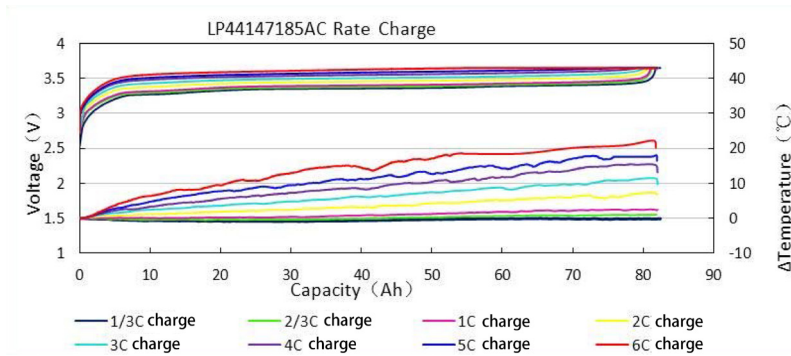
### 3. Specifications

Item	Specification
Nominal Capacity	78 Ah
Nominal Voltage	3.2 V
AC-Impedance	$\leq 1.0 \text{ m}\Omega$
<b>charge</b>	
- Standard Charge Method	CC/CV
- Current	1/3 C
- Voltage	3.65 V
- End Current	3.9 A
- Maximum Charge Current	2 C (30 s)
<b>discharge</b>	
- Standard Discharge Method	Constant Current ( CC )
- Current	1/3 C
- End Voltage	2.0 V
- Maximum Discharge Current	2 C
Size	44 mm (T) x 147 mm (W) x 185 mm (H)
Cycle life	3000 cycles at 80% DoD 2000 cycles at 85% DOD
Weight of Cell	2238 $\pm$ 50 g
Max Operating Temperature Range	-20°C ~ +45°C, charge; -20°C ~ +60°C, discharge;
Storage Temperature	-40°C ~ +45°C, one month; -20°C ~ +35°C, six month;

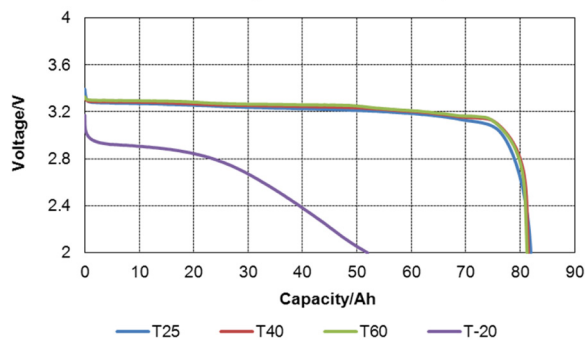


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## 1-4# Discharge at various temperature



## 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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