

## High Power Lithium-Ion Cell

# LP44147132AB 50 Ah



### 1. Scope

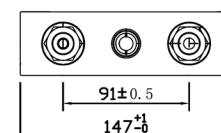
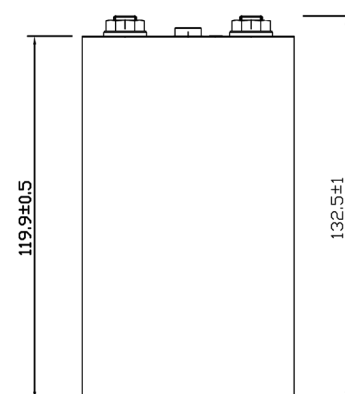
LISHEN High Power Cells are 100% automatically manufactured and produced under the strict quality control to ensure long life, secure usage and very high performance. To be able to combine cells in systems, our products are automatically sorted under the strongest restrictions to optimise performance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

### 2. Description and Model

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.

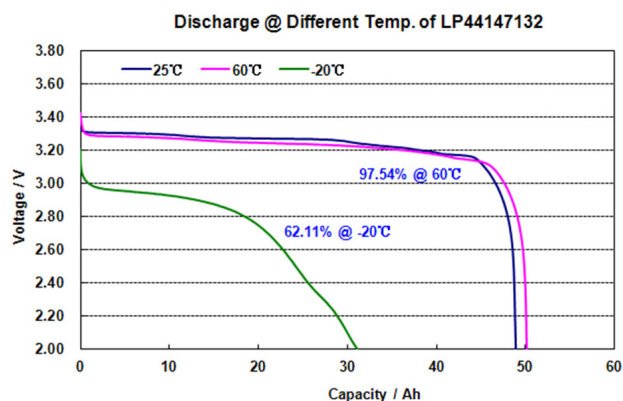
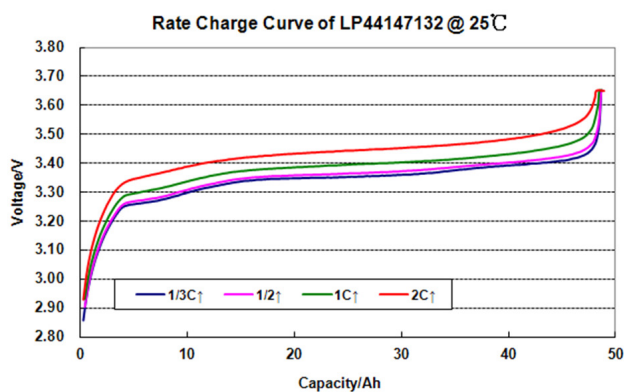
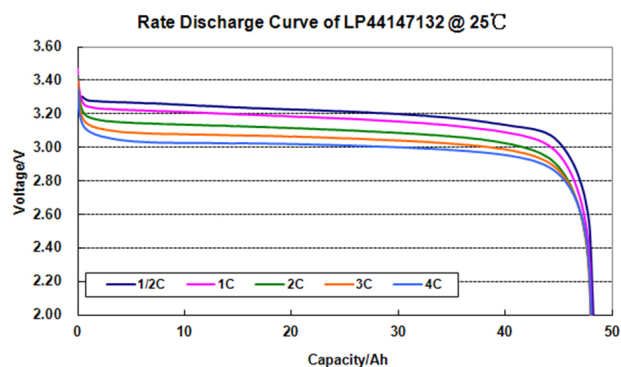
### 3. Specifications

| Item                                | Specification                                      |
|-------------------------------------|--|
| Nominal Capacity                    | 50 Ah  |
| Nominal Voltage                     | 3.2 V  |
| AC-impedance                        | $\leq 1.5 \text{ m}\Omega$                         |
| <b>charge</b>                       |  |
| - Standard Charge Method            | CC/CV  |
| - Current                           | 1/3 C  |
| - Voltage                           | 3.65 V   |
| - End Current                       | 2.500 mA   |
| - Maximum charge current            | 1 C, 2 C (10 s)                                    |
| <b>discharge</b>                    |  |
| - Standard Discharge Method         | Constant Current                                   |
| - Current                           | 1/3 C  |
| - End Voltage                       | 2.0 V  |
| - Maximum Discharge Current         | 2 C, 4 C (30 s)                                    |
| Size                                | 44 mm x 147 mm x 132.5 mm                          |
| Cycle Life                          | 2.000 cycles at 80% DoD<br>3.000 cycles at 70% DoD |
| Weight                              | $1.750 \pm 50 \text{ g}$                           |
| Maximum Operating Temperature Range | $-20^\circ\text{C} \sim 60^\circ\text{C}$          |
| Storage Temperature                 | $-40^\circ\text{C} \sim 45^\circ\text{C}$          |



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## 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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