

# High Power Lithium-Ion Cell

## LR1865 SI

### 1. Scope

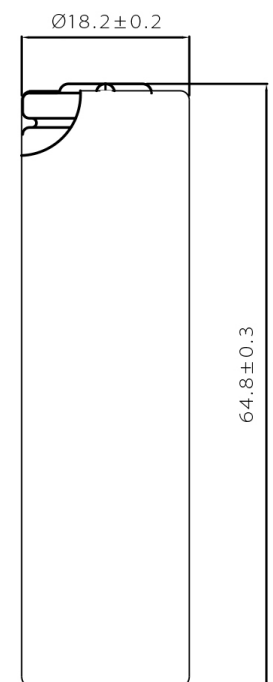
LISHEN Cylindrical Cells are 100% automatically manufactured and produced under the strict quality control and performance control to ensure long life, secure usage and very high performance. To be able to combine cells in systems, our products are automatically sorted under the strongest restrictions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

### 2. Description and Model

LISHEN Cylindrical Cell LR1865 SI can be used in special applications where high charge and discharge request is stated, such as NBPC, LED Lamp, LEV, mobile charger.

### 3. Specifications

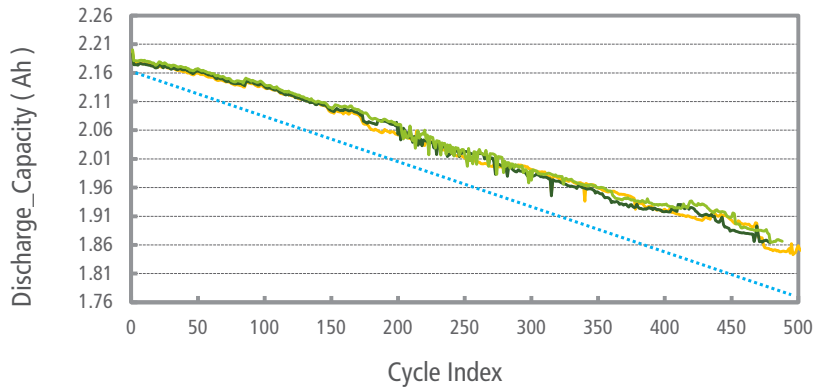
Item	Specification
Nominal Capacity	2.2 Ah
Nominal Voltage	3.6 V
AC-impedance	≤ 65 mΩ
<b>charge</b>	
- Standard Charge Method	CC/CV
- Current	1/2 C
- Voltage	4.2 V
- End Current	44 mA
- Maximum charge current	0.5 C, 1 C (10 s)
<b>discharge</b>	
- Standard Discharge Method	Constant Current (CC)
- Current	1 C
- End Voltage	3.0 V
- Maximum Discharge Current	2 C, 3 C (30 s)
Size	L: 65 mm, D: 18 mm
Cycle Life	500 cycles at 80% DoD 500 cycles at 70% DoD
Weight	43 ± 2 g
Max Operating Temperature Range	-20°C ~ 60°C
Storage Temperature	-20°C ~ 45°C



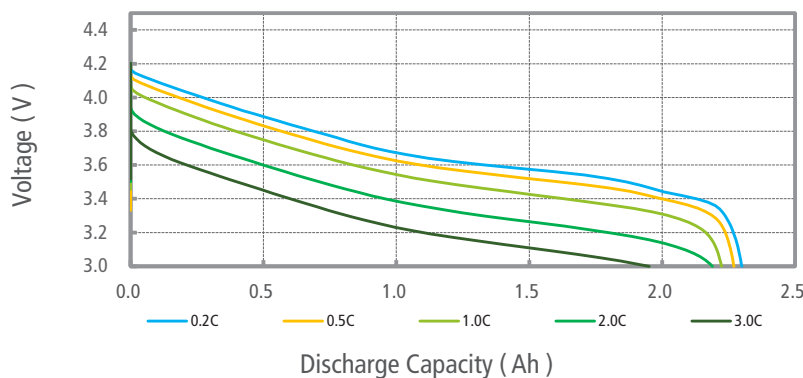
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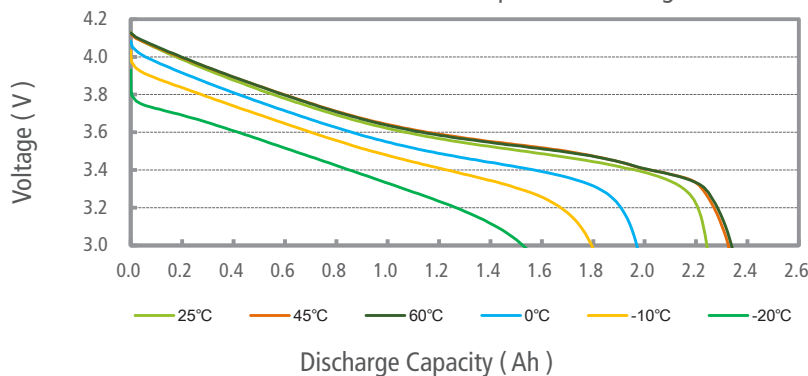
LR1865SI C03187 Cell Cycle @ RT



Discharge curve at different current



LR1865SI Different temperature discharge



## 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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