

High Power Lithium-Ion Cell

LR1865 AM

1. Scope

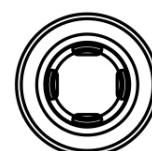
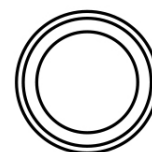
LISHEN Cylindrical Cells are 100% automatically manufactured and produced under the strict quality control and performance control to ensure long life, secure usage and very high performance. To be able to combine cells in systems, our products are automatically sorted under the strongest restrictions 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 AM can be used in special applications where high charge and discharge request is stated, such as NBPC, LED Lamp, LEV, mobile charger.

3. Specifications

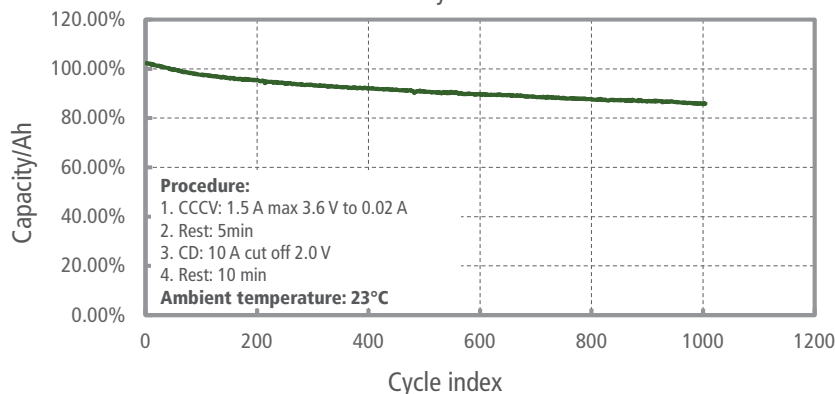
Item	Specification
Nominal Capacity	1.1 Ah
Nominal Voltage	3.2 V
AC-impedance	$\leq 25 \text{ m}\Omega$
charge	
- Standard Charge Method	CC/CV
- Current	1/2 C
- Voltage	3.6 V
- End Current	20 mA
- Maximum charge current	1 C, 3 C (10 s)
discharge	
- Standard Discharge Method	Constant Current (CC)
- Current	1/2 C
- End Voltage	2.0 V
- Maximum Discharge Current	20 C, 25 C (30 s)
Size	L: 65 mm, D: 18 mm
Cycle Life	10.000 cycles at 80% DoD 12.000 cycles at 70% DoD
Weight	$39.4 \pm 1 \text{ g}$
Max Operating Temperature Range	$-20^\circ\text{C} \sim 60^\circ\text{C}$ (Do not charge under 0°C)
Storage Temperature	$-20^\circ\text{C} \sim 45^\circ\text{C}$
Chemie	LFP



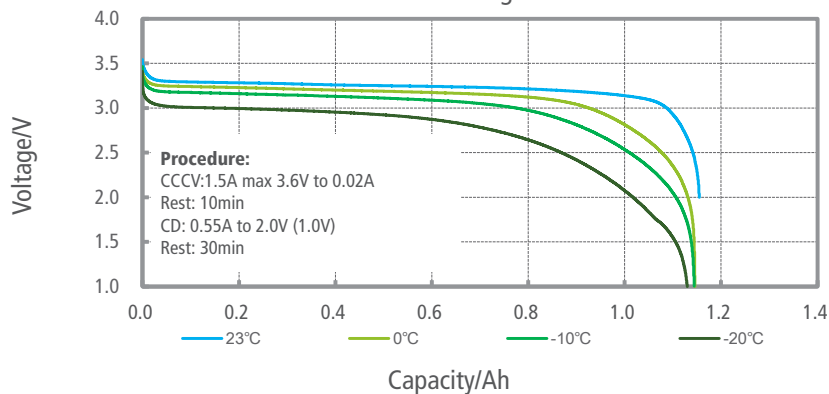
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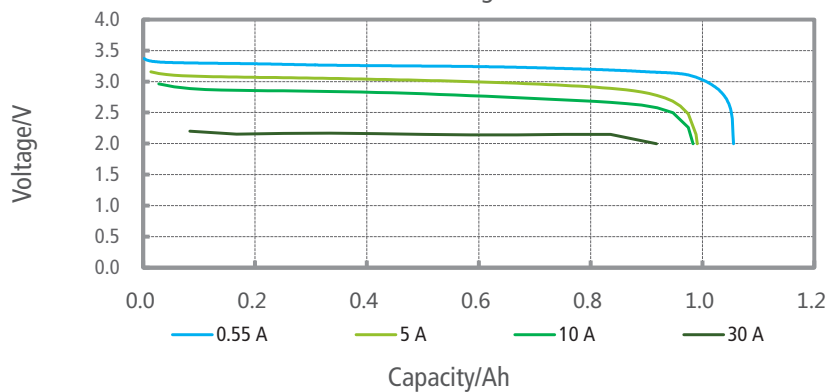
LR1865AM Cycle Characteristic



LR1865AM Rate discharge characteristic



LR1865AM Rate discharge characteristic at 25°C



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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