

+ Nanophosphate® High Power Lithium Ion Cell

ANR26650M1-B



A123's high-performance Nanophosphate® lithium iron phosphate (LiFePO₄) battery technology delivers high power and energy density combined with excellent safety performance and extensive life cycling in a lighter weight, more compact package. Our cells have low capacity loss and impedance growth over time as well as high usable energy over a wide state of charge (SOC) range, allowing our systems to meet end-of-life power and energy requirements with minimal pack oversizing.



APPLICATIONS

COMMERCIAL SOLUTIONS

Advanced lead acid replacement batteries for:

- + Datacenter UPS
- + Telecom backup
- + IT backup
- + Autonomously guided vehicles (AGVs)
- + Industrial robotics and material handling equipment
- + Medical devices

GOVERNMENT SOLUTIONS

- + Military vehicles
- + Military power grids
- + Soldier power
- + Directed energy

GRID SOLUTIONS

Versatile, flexible and proven storage solutions for the grid:

- + Frequency regulation
- + Renewables integration
- + Reserve capacity
- + Transmission and distribution

TRANSPORTATION SOLUTIONS

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

- + Commercial vehicles
- + Off-highway vehicles
- + Passenger vehicles

ANR26650M1-B TECHNICAL DATA

Cell Dimensions	ø26 x 65 mm
Cell Weight	76g
Cell Capacity (nominal/minimum) [0.5C Rate]	2.5/2.4 Ah
Voltage (nominal)	3.3V
Internal Impedance (1kHz AC typical)	6mΩ
Power*	2600 W/kg
Recommended Standard Charge Method	2.5A to 3.6V CCCV, 60 min
Recommended Fast Charge Method to 80% SOC	10A to 3.6V CC, 12 min
Maximum Continuous Discharge	50A
Maximum Pulse Discharge (10 seconds)	120A
Cycle Life at 20A Discharge, 100% DOD	>1,000 cycles
Operating Temperature	-30°C to 55°C
Storage Temperature	-40°C to 60°C

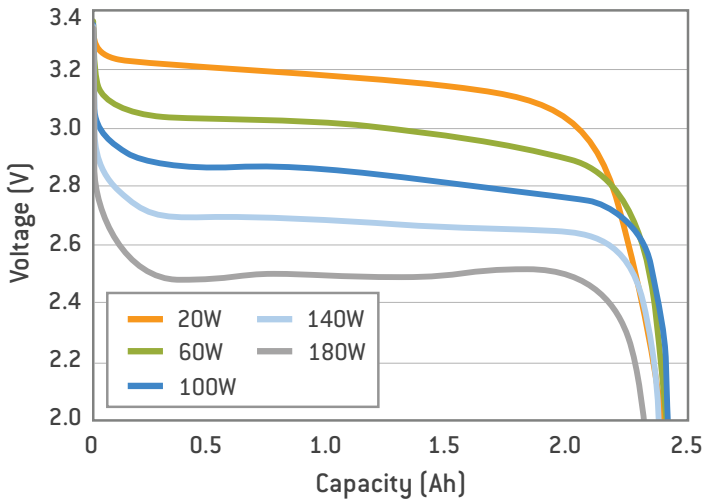
* ~200W as measured by A123 modified HPPC Method @ 23°C, 50% SOC, 10 second discharge

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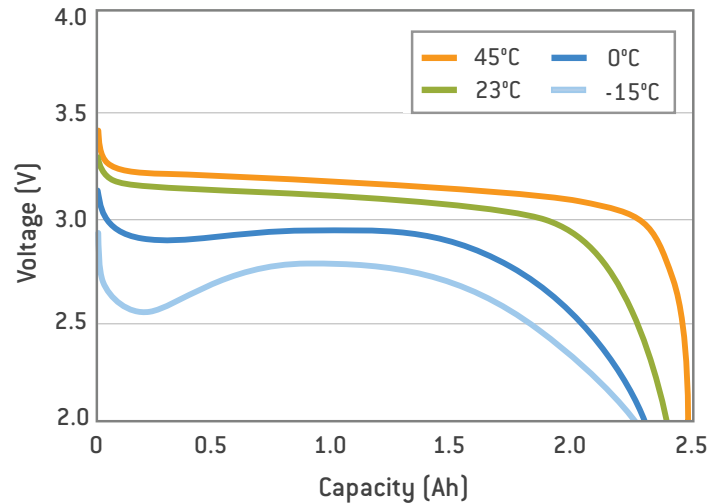
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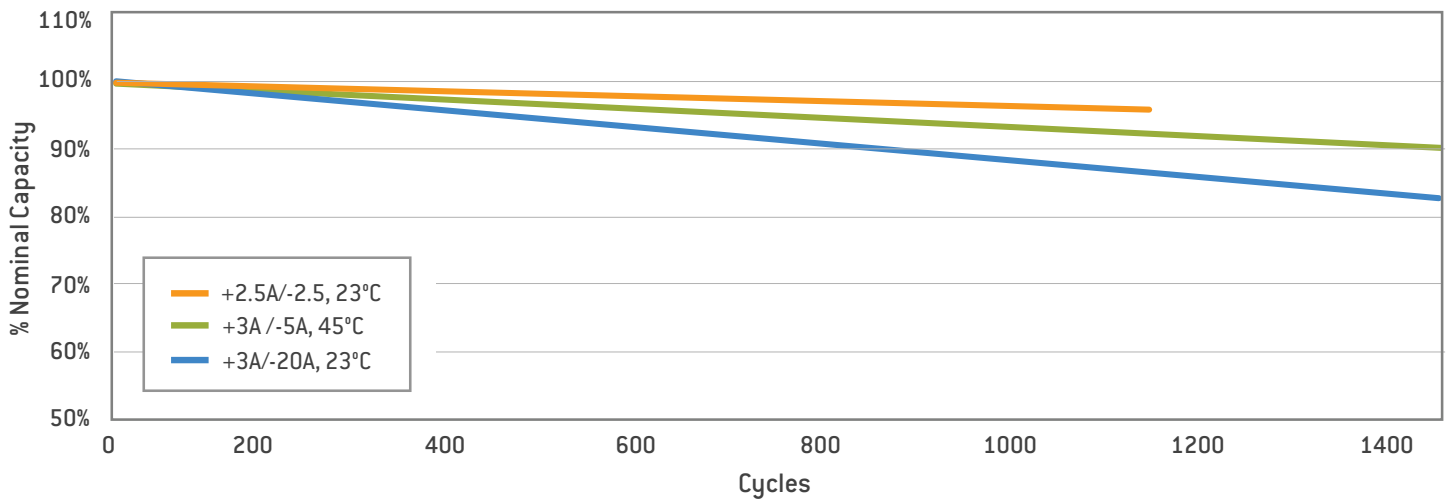
Constant Power Discharge Characteristics at 23°C



2.5C Constant Current Discharge at Various Temperatures



Cycle Life Performance, 100% DOD, Various Temperatures and Discharge Rates



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