

+ Nanophosphate[®] High Power Lithium Ion Cell

ANR26650~~M~~1-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

ANR26650~~M~~1-B TECHNICAL DATA

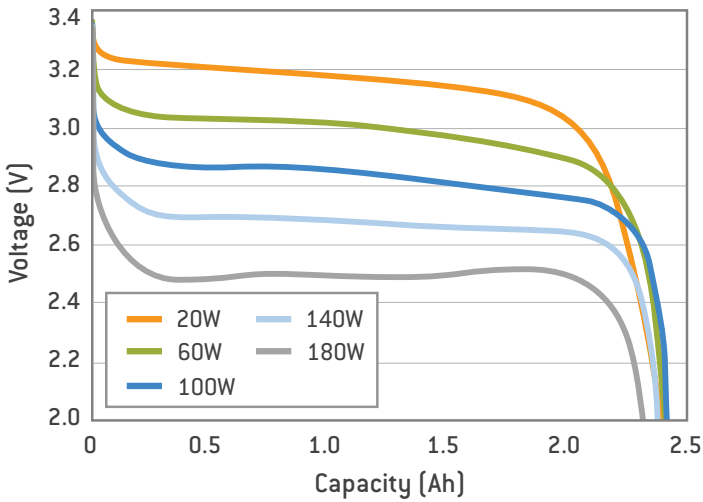
Cell Dimensions	ø26 x 65 mm
Cell Weight	76g
Cell Capacity (nominal/minimum) [0.5C Rate]	2.5/2.4 Ah
Voltage (nominal)	3.3V
Internal Impedance (1kHz AC typical)	6mΩ
Power*	2600 W/kg
Recommended Standard Charge Method	2.5A to 3.6V CCCV, 60 min
Recommended Fast Charge Method to 80% SOC	10A to 3.6V CC, 12 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

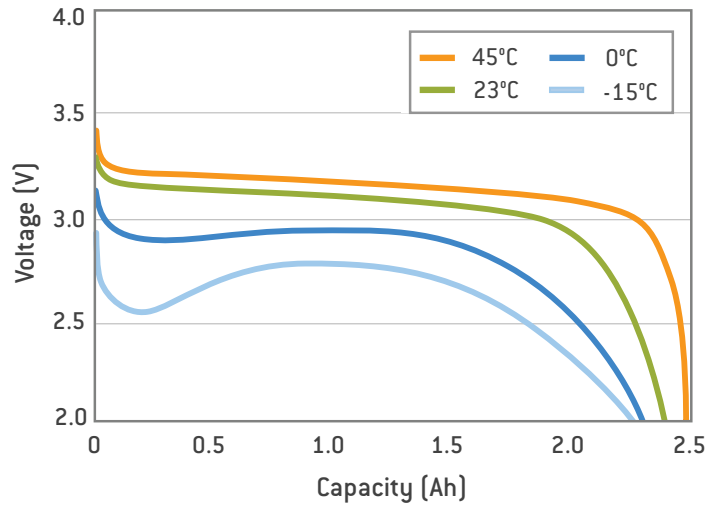
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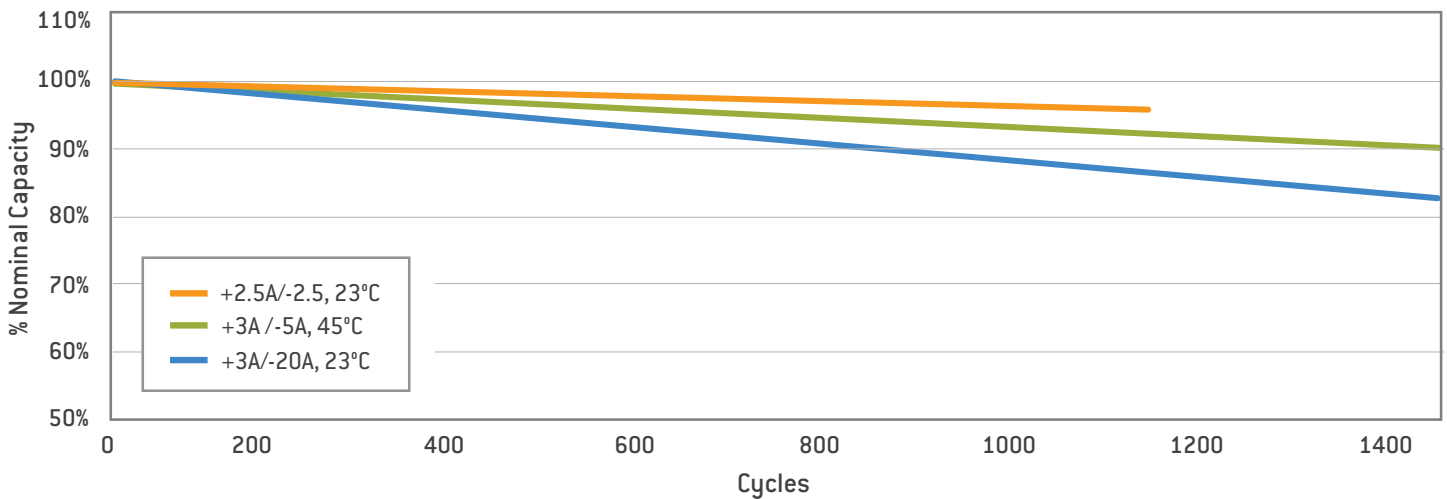
Constant Power Discharge Characteristics at 23°C



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. A123 Systems makes no warranty explicit or implied with this data sheet. Contents subject to change without notice.

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