

High Power Lithium-ion Cell

IFP2770145 - 20Ah

1.Scope

WINA High power lithium-ion battery cells with the aluminum case that are automatically manufactured and produced under the strict quality control to ensure long life, safety and very high performance.

2. Applications

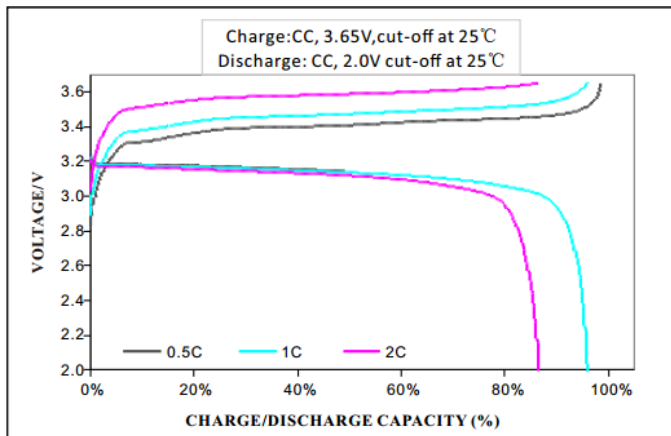
WINA High power cells find their applications in all kind of power and storage applications, such as e-cars, e-buses, e-trucks, fork lifters, e-scooters as well as energy storage applications, such as solar, UPS, household systems, containe



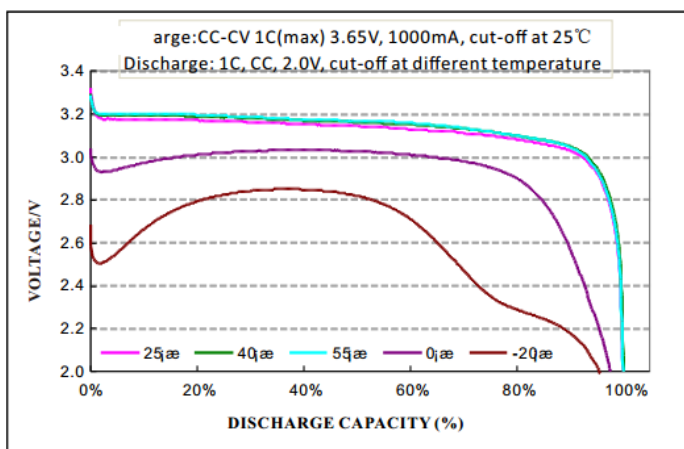
3. Specification

Items		Parameter
Battery type		LiFePO ₄
Nominal capacity		20Ah
Nominal voltage		3.2V
Resistance		≅ 10mΩ
Charge		
Standard Charging Mode		CC/CV
End of Charging Voltage		3.65V
Standard Charging Current		1C (20A)
Discharge		
End of Discharging Voltage		2.5V
Standard Discharging Current		1C (20A)
Max. Continuous Discharging Current		3C (60A)
Weight of Single Cell		520±20 g
Dimension (L*W*H)		27 ^{-0.5} ₀ × 70 ^{-0.5} ₀ × 145 ⁺¹ ₋₁ mm
Operating Temperature Range	Charging	0 ~ 45℃
	Discharging	-20 ~ +55℃
Storage Temperature		-10 ~ +30℃
Cycle Life (1C/1C)		≅ 2000 Times
Self-discharge Rate per Month		<3%

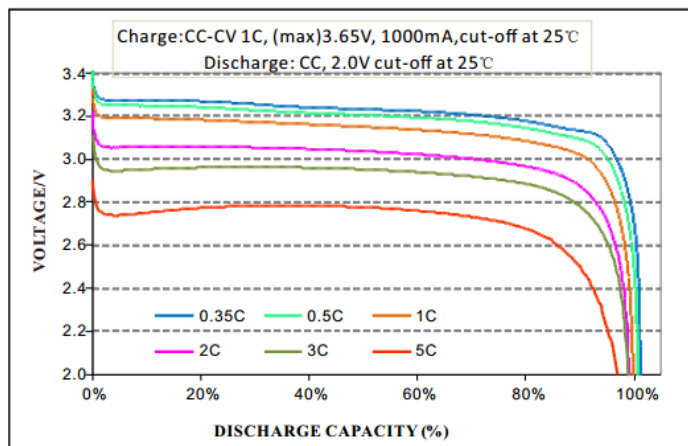
Charge Performance:



Discharge performance @different temperature



Discharge performance @different C-Rate



Applications

TRANSPORTATION SOLUTIONS

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

- Electric buses, E-trucks
- Passenger Vehicles
- Scooters
- Boats
- Off-highway Vehicles

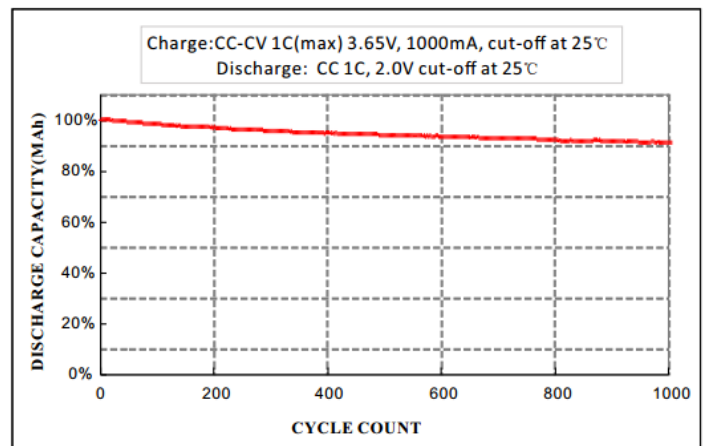
COMMERCIAL SOLUTIONS

- Home Energy Storage System
- UPS Data center
- Telecom and IT backup
- Industrial Equipment

GRID SOLUTIONS

- Frequency Regulation
- Renewable Energy Integration
- Reserve capacity

Cycle life performance



This document represents typical data. Performance may vary depending on use conditions and applications. 08/2017