100Ah Datasheet

EZC1-3.2-100

3.2V 100Ah **LiFePO4 Battery Cell**



CLASS A **LONG LIFECYCLE** **POSITIVE TOLERANCE** **LISTED**

Specifications

Nominal Voltage	3.2V	Life Cycle	≥4000 @80% DOD
Rated Capacity	100Ah*	Operating voltage	2.50 ~ 3.65V
Minimum Capacity	100Ah*	Initial charged Capacity	25~35% SOC
Impedance (Internal Resistance @1kHz)		≤0.45mΩ	
Self-Discharge rate		<3.5% per month	
Standard Charge and Discharge Current		0.5C (50A) @25°C	
Standard Charge Mode		CC to 3.65V then CV until the current reaches 5A	
Maximum Charge and Discharge Current		1C (100A) @20~40°C	
Operating Temp		0~50 °C (32~122°F) for Charging -20~55°C (-4~130°F) for Discharging	

*@50A Discharge current

charging current with cell temperature**

Cell Temp	<0°C	0~10 °C	10~15 °C	15~25 °C	25~40 °C	40~50 °C	>50 °C
Standard Charge	N/A	0.1C	0.2C	0.3C	0.5C	0.3C	N/A
Max Charge	N/A	0.1C	0.3C	0.5C	1.0C	0.3C	N/A

** charging at low temperature causes a battery defect
charging at high temperature causes a reducing lifetime

Capacity at low temperature

@25 °C (75F)	**≥ 100Ah**	@-10 °C (15F)	**≥ 75Ah**
@0 °C (32F)	**≥ 85Ah**	@-20 °C (0 F)	**≥ 70Ah**

General Data

Dimensions	8.65(L)×5.0(H)×1.89(W) inches (173.9×127.6×48.0 mm) / 5.2"(H) with terminal
Weight	4.85 lbs (2.2 kg)

Certification and Safety

UL1973 / IEC62619 / MSDS (Material safety) / UN38.3 (Transport Safety)

411 Alfred Ave,
Teaneck NJ 07666
Phone : 201-837-5088
Fax : 201-837-5099

www.EnerZbattery.com

EnerZ BATTERY is a leading manufacturer and supplier of lithium iron phosphate batteries (LifePO4) Established 2021.

We design the battery management system, assemble and produce the battery pack by ourselves. We have also established cooperation with a leading battery manufacturer to sell LiFePO4 cells and a complete solar or off grid application system completely designed by them.