

DEEP CYCLE LiFePO4 BATTERY

36V 100Ah

3600Wh



PRODUCT SPECIFICATION

Nominal Characteristics

Rated Capacity	100Ah (Typ.) / 100Ah (Min.)
Nominal Voltage	38.4V

* Standard Charge and Standard Discharge.

Charge Characteristics

End Of Charge Voltage	43.6V
Charge Mode	CC / CV
Charging Current (Charger Charging Current)	0.2C
Charging Cut-off Current	0.02C
Charging Time	5~6h
Max Continuous Charge Current	100A

Discharge Characteristics

Max Continuous Discharging Current	100A
Instantaneous Current	600A (5s Duration)

Protection Thresholds

Over-Charge Voltage Protection (cell)	3.65V ($\pm 0.05V$)
Over-Discharge Voltage Protection (cell)	2.3V ($\pm 0.1V$)
Over-Current Discharge Protection 1	600A ($\pm 70A$)
Over-Current Discharge Protection 2	$\sim 1200A$

Temperature Protection	Battery Charging: $0\pm 5^{\circ}C$ / $70\pm 5^{\circ}C$ Battery Discharge: $-20\pm 5^{\circ}C$ / $70\pm 5^{\circ}C$ MOS: $105\pm 5^{\circ}C$
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Environmental Conditions

Operation Temperature Range	Charge	$0\sim 45^{\circ}C$
	Discharge	$-20\sim 60^{\circ}C$
Storage Temperature Range	≤ 3 Month	$-20\sim 45^{\circ}C$
	≤ 1 Year	$-20\sim 20^{\circ}C$

* $60\pm 25\%$ R.H. Bare Cell, $60\pm 25\%$ R.H. at the Shipment State

Cell Dimensions

Cell Dimension(L*W*H) (mm)	268.8*496.5*220.2(± 5)
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Cycle Life

Charge	0.2C to 43.6V
Constant Voltage to 0.02C	Rest Time : 10min
Discharge	0.2C to 27.6V
Rest Time	10min
Temperature	$25\pm 5^{\circ}C$

* Capacity retention $\geq 80\%$ after 2,000 cycles.

Mode of use

Max Support	4 Set 12.8V Batteries in Series
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