

A Reliable Power Solution Provider

Lithium Iron Phosphate (LiFePO4) Battery

Ontario-ONT12V-SYL-100AH

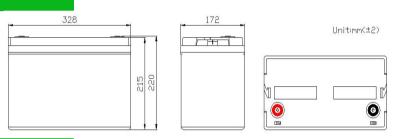
Features

- ◆ Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions
- ♦ Built-in automatic protection for over-charge, over discharge, over current and over temperature
- ◆ Maintenance free
- ◆ Internal cell balancing
- \spadesuit Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery
- ◆ Replacement for lead-acid battery
- ♦ Wider temperature range:-20°C~60°C
- ◆ Support up to 4pcs batteries in series, 10pcs batteries in parallel



Application

- ♦ UPS
- ◆ Solar &Wind power system
- ◆ Golf Cart
- ◆ Electric vehicle , E-bike, E-rickshaw etc.
- **♦** Lighting



General Specifications				
Electrical Characteristics	Nominal Voltage	12.8V		
	Nominal Capacity	≥100Ah@0.2C		
	Energy	≥1280Wh		
	Internal Resistance	≤45mΩ		
	Cycle Life	2000 Cycles @ 20A Charging / Discharging ,Until 70% Capacity		
	Months Self Discharge	≤3.5% per month at 25°C		
Standard Charging	Charge Voltage	14.0~14.4V		
	Charge Mode(CC/CV)	At 0 °C~45°C temperature, charged to 14.4V at a constant current of 20A, and then,changed continuously with constant voltage of 14.4V until the current was not more than 2A		
	Charger Current	20A		
	Max.Charge Current	50A		
	Discharge Current	20A		
Standard Discharge	Max. Discharge Current	100A, BMS with Bluetooth function.		
Standard Discharge	Max.Pulse Discharge Current	200A(<3S)		
	Discharge Cut-off Voltage	10.0V		
	Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity		
	Discharge Temperature	-20 $^{\circ}$ to 60 $^{\circ}$ C(-4 $^{\circ}$ F to 140 $^{\circ}$ F) @60±25% Relative Humidity		
Operating Condition	Storage Temperature	0 $^{\circ}$ to 45 $^{\circ}$ (32 $^{\circ}$ F to 113 $^{\circ}$ F) @60±25% Relative Humidity		
	Storage Duration	12 months at 25 $^{\circ}\mathrm{C}$		
	Water Dust Resistance	IP55		
	Cell & Format	IFR32700 N60 & 4S17P, total 68pcs cells in one battery pack		
Structure	Plastic Case	ABS		
	Dimension(L*W*H)	328*172*220mm		
	Weight	Approx.13.5Kg		
	Terminal	M8		

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14.0 13.5 13.0 12.5 11.0 10.5

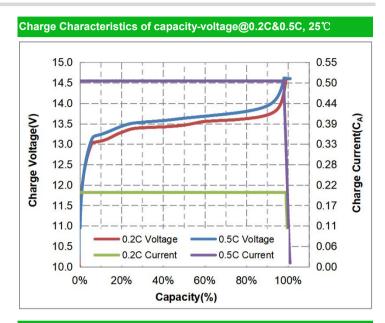
0.5C

60%

Capacity(%)

80%

100%



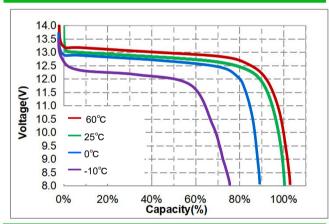
Different Temperature Discharge Curve @ 0.5C ,25℃

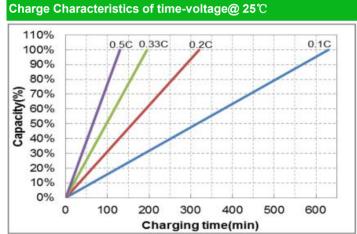
40%

0.2C

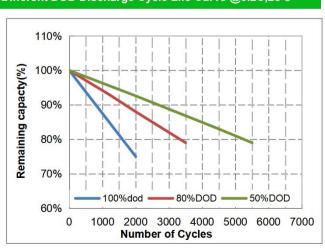
20%

10.0 – 0%

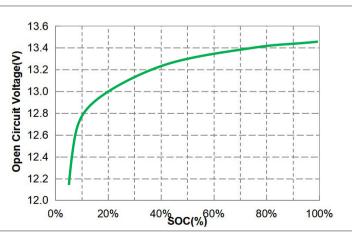




Different DOD Discharge Cycle Life Curve @0.2C,25℃







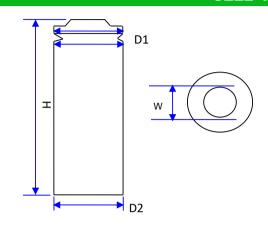


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CELL DATA SHEET

CELL MODEL: IFR32700 N60





Item	Size(mm)	Tolerance(mm)
Width	15.92	±0.1
Hoight	70.5	0.4
Height		-0.2
Diameter 1	32.5	±0.3
Diameter 2	32.4	±0.1

Item	Parameters	Remarks
Nominal Voltage	3.2V	0℃ ~ 45℃
Nominal Capacity	6000mAh	@3A standard discharge
Battery Energy	19.2Wh	0℃ ~ 45℃
Internal Resistance	≤10mΩ	@AC 1 KHz
Standard Charge Current	3A	0℃~60℃
Rapid Charge Current	6A	0℃~60℃
Charge Limited Voltage	3.65V	0℃~60℃
Standard Discharge Current	3A	0℃~ 45℃
Rapid Discharge Current	6A	0℃~ 45℃
Max. Discharge Current	18A	Limited Voltage2.0V
Max.Pulse Discharge Current	30A	<10ms
Discharge Cut-off Voltage	2.0V	@3A standard discharge
Approx. Weight	145g	±5g
Cycle Life	≥2000 times@3A working current	≥ 80% of Nominal Capacity
Storage Temperature	0℃~35℃	Within one year