

Specification

Model	YL1250	YL12100	YL12150	YL12200	YL2450	YL24100	YL24200
Electrical Characteristics							
Nominal Voltage (V)	12.8				25.6		
Nominal Capacity (Ah)	50	100	150	200	50	100	200
Energy (kWh)	0.64	1.28	1.92	2.56	1.28	2.56	5.12
Internal Resistance (mΩ)	≤80	≤75	≤70	≤65	≤70	≤65	≤60
Cycle Life ①	≥3500 Cycles@25 ℃				≥3500 Cycles@25 ℃		
Design Life (Years)	≥10				≥10		
Months Self Discharge	≤2%, @35 ℃				≤2%, @35 ℃		
Efficiency of Charge	≥99%, @0.2C				≥99%, @0.2C		
Efficiency of Discharge	≥99%, @0.2C				≥99%, @0.2C		
Charge							
Charge Cut-off Voltage (V)	14.4~14.8				28.8~29.6		
Charge Mode	CC-CV(0.2C to 14.4V, then 14.4V Charge Current to 0.02C)				CC-CV(0.2C to 28.8V, then 28.8V Charge Current to 0.02C)		
Standard Charge Current (A)	10	20	30	40	10	20	40
Max. Continuous Charge Current (A)	50	100	150	200	50	100	200
Discharge							
Discharge Cut-off Voltage (V)	10~11.2				20~22.4		
Standard Discharge Current (A)	10	20	30	40	10	20	40
Max. Continuous Discharge Current (A)	50	100	150	200	50	100	200
Environmental							
Charge Temperature (℃)	0~55						
Discharge Temperature (℃)	-20~60						
Storage Temperature (℃)	-10~45℃ @60%±25% Relative Humidity						
Mechanical							
Plastic Case	ABS						
Dimensions(L*W*H mm)	229*138*208	330*172*215	483*170*240	552*240*218	330*172*215	522*240*218	522*268*252
Weight (kg)	6.5	12.5	18.5	25	12.5	25	38
Terminal Type	M6	M8					
Cell Type-Chemi stry	LiFePO4						
Series Parallel Capability	4S/4P				2S/4P		
Others(Optional)							
Communication	Bluetooth						
Display	LCD Screen						

① Test condition: 0.2C Charging/Discharging, @25 °C, 80% Dod

iPower Batteries

LFP-ABS Series 12.8V & 25.6V



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Introduction

Throughout our initial journey of Lithium battery manufacturing, a great many clients presented their demands of high reliable performances LifePO4 battery. This demand corresponds just with what we are capable of and gradually turned our vision to be solely devoted to first class lithium battery manufacturing.

YL LFP-ABS is born from the idea that it can provide you with reliable, long-cycle span, all-round intelligent management, self-protecting and safe green energy at economic way. Its a perfect replacement for the conventional lead-acid, AGM, gel batteries and can be widely used in many fields like camping cars, RV motorhome, golf carts, boat marine yachts, electric skateboard, LED backup, engine stadting battery, mobile POS and mining light, etc.



Advantages

- Long cycle life (10 times that of lead-acid batteries) and high reliability
- Green and environmental protection, using pure natural and green materials, without any heavy metals
- Small size, light weight, high energy density
- Wide operating temperature range, good high and low temperature performance
- High efficiency, energy saving, stable power supply
- Long cycle life, life > 10 years @25 °C /77°F
- The powerful function of high power output, short time and high rate discharge
- The self-discharge rate is extremely low and can be stored for a long time
- No memory effect, maintenance-free
- Configurable communication function, intelligent management
- Bluetooth
- LCD Screen

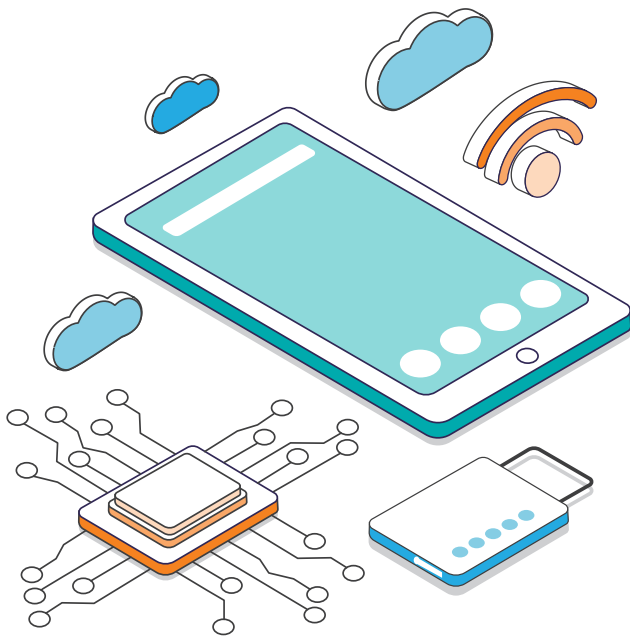
Protection Functions

- Cell Discharge Over Temperature
- Cell Over-discharge Voltage
- Cell Charge Over Temperature
- Cell Over-charge Voltage

- Over-current Discharge
- Over-current Charge
- Mos Over Temperature
- Short Circuit Protection
- Fault Protection

Power BMS APP

Power BMS APP is mainly used to read the real-time status of lithium batteries, such as the voltage of each series of batteries, charging and discharging current, alarm prompts, protection.



- Overview of Battery Usage Status

 - Display the battery level and percentage
 - Display the total battery voltage
 - Display the magnitude of charging and discharging current
 - Display power value
 - Display the number of battery pack cycles
- View Battery Details

 - Display the highest and lowest voltage in the battery cell, as well as the voltage difference and average voltage value
 - Display cell voltage
 - Display battery temperature
 - Alarm notification
- Bluetooth Connectivity

 - Supports multiple languages
 - Supports battery search functionality
- Set the Bluetooth Name

 - Custom Battery Name
- View Battery Protecting Parameters

 - Review the protection parameters of the protection board to understand the conditions that trigger its protective actions