

AB-G31 Series

Data sheet



36V 60Ah 12V 150Ah 24V 75Ah 48V 36Ah



Models Included:

- **AB G31-12V130** 12V 130Ah LiFePO4
- **AB G31-12V150** 12V 150Ah LiFePO4
- **AB G31-24V75** 24V 75Ah LiFePO4
- **AB G31-36V60** 36V 60Ah LiFePO4
- **AB G31-48V36** 48V 36Ah LiFePO4

		Model				
		AB 12V130	AB 12V150	AB 24V75	AB 36V60	AB 48V36
Electrical Specifications	Nominal Voltage	12.8V	12.8V	24V	36V	48V
	Nominal Capacity	130Ah	150Ah	75Ah	60Ah	36Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 6units	Max. 6units	Max. 2units	No	No
	BMS	4S150A	4S150A	8S80A	12S50A	16S45A
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance				
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD				
	Self Discharge	Less than 3% per month				
	Charge Efficiency	100% @0.2C				
	Discharge Efficiency	98-100% @1C				
Charge Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	28.8±0.4V	43.2±0.6V	57.6±0.8V
	Standard Current	26A	30A	14A	10A	7A
	Fast Current	65A	75A	36A	25A	18A
Discharge Specifications	Standard Current	26A	30A	14A	10A	7A
	Max. Con. Current	130A	150A	72A	50A	36A
	Peak Current	600A(300ms)	600A(300ms)	400A(300ms)	200A(300ms)	180A(300ms)
	Cut-off Voltage	10V	10V	20V	30V	40V
Mechanical Specifications	Dimensions (mm)	330×173×216mm (Group 31)				
	Approx Weight(KG)	15	15.5	14.5	15	14.5
	Terminal Type	M8				
	Case Color/material	Black Plastic case (ABS)				
	IP Rating	IP65				
	Cell Type	Cylindrical LiFePO4 cell				
	Cell holder	Yes				
Temperature Specifications	Charge Temp	0°C to 55°C		(32°F to 131°F)		
	Discharge Temp	-20°C to 60°C		(-4°F to 140°F)		
	Storage Temp	-5°C to 45°C		(23°F to 113°F)		

Key Points for Quality control:

- Cell match:**
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**
 All battery packs are 100% cycle tested (Fully Discharged→Fully Charged→Fully Discharged→60% Charged) before package and all test reports are stored.
- Unique tracking number:**
 All battery packs are lasered an unique number on the case side for quality tracking.

Certifications:

- UL1642 (Cell)
- IEC62133 (Cell)
- IEC62619 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- ROHS (Cell)

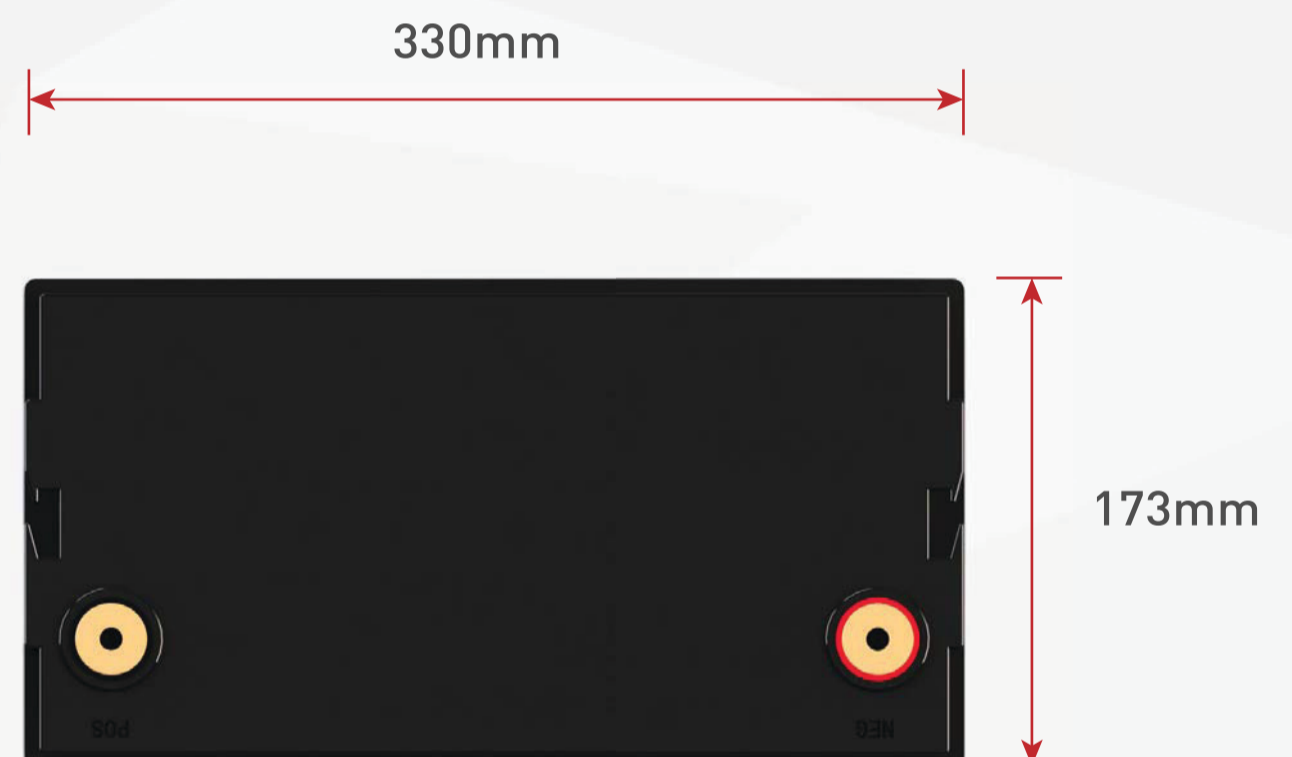
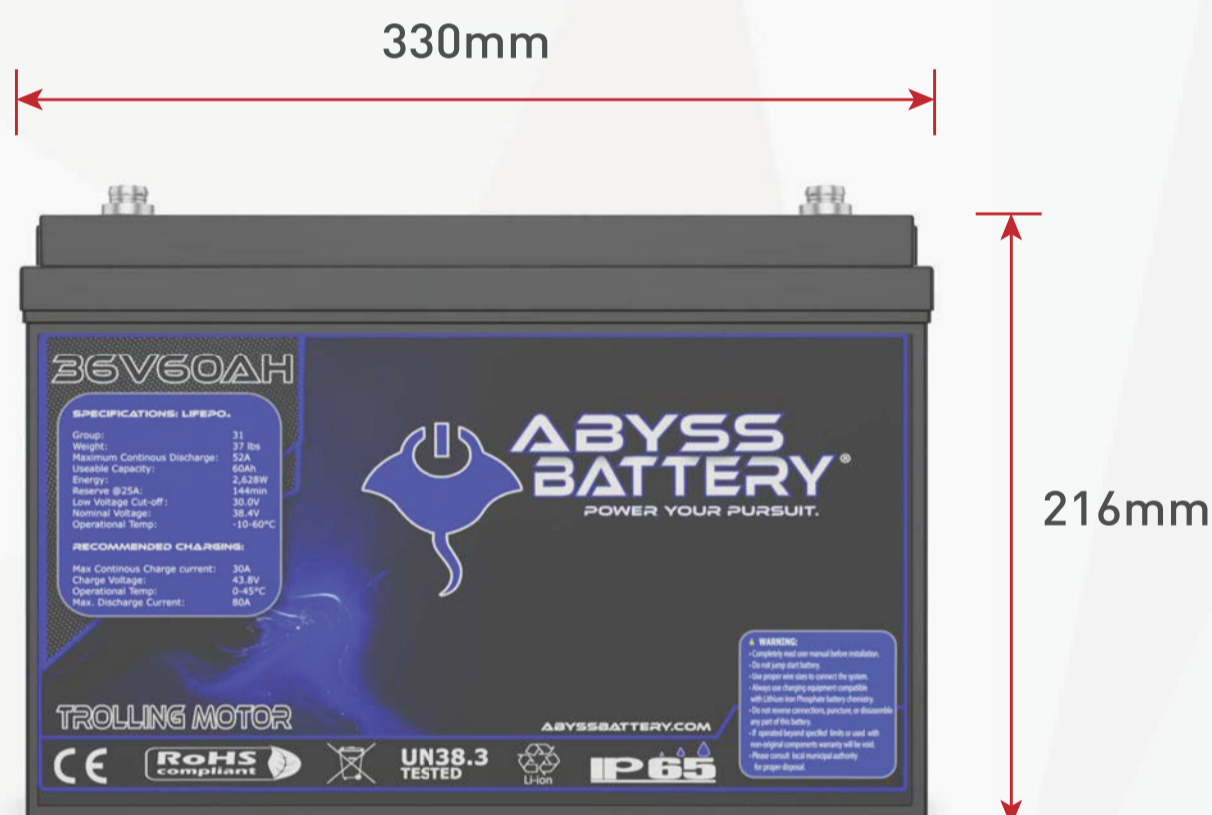
MSDS



UN38.3



Dimensions:



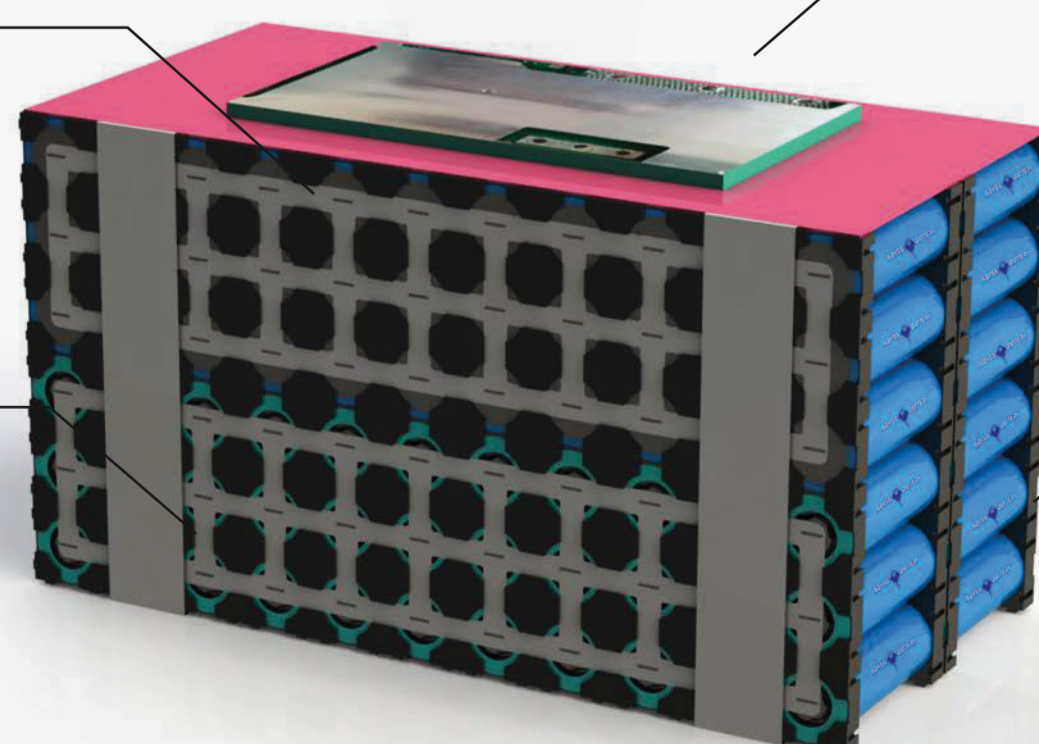
Internal Structure:

Molded Plastic cell holder

Molded Nickel sheet

BMS

Cell



Key Benefits:

- **Higher qualified cylindrical cell:**
UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.
- **Stronger BMS:**
Can support the batteries in parallel and series connection
- **More stable and firm internal structure:**
Cell holders can well protect and separate the cells to avoid any circuit short risk caused by vibration or impact or over current, and improve the heat dissipation.
- **Smaller size and less weight:**
The size of our battery is just 3/4 size of the standard 12V 150Ah battery from other suppliers.

Market Applications:



RV



Marine



Golf cart



Light EV



Energy storage



Cleaning



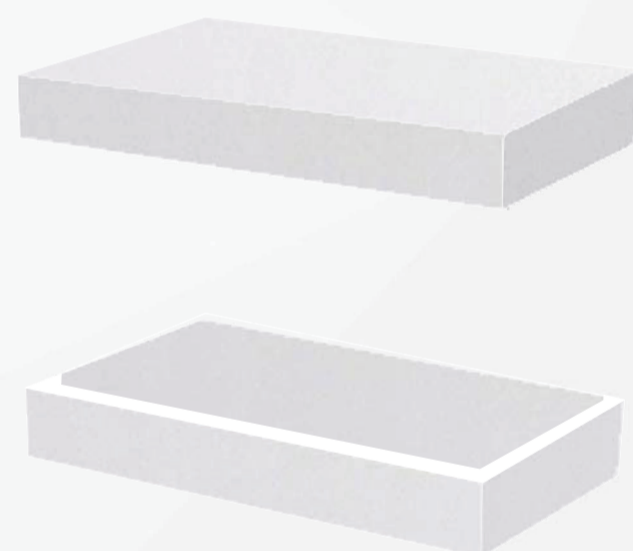
Robotics



Lighting

Package:

- 20' Container=10Pallets=600Cartons=600Units;
- 40' Container=20Pallets=1200Cartons=1200Units;



Internal Package
Forming pearl foam

1Carton=1Unit



Weight: 16Kg/carton
Size(L×W×H): 410×250×310mm

1Pallet=60Cartons



Weight: 970Kg/pallet
Size(L×W×H)=1.2×1×1.7m ≈ 2CBM

