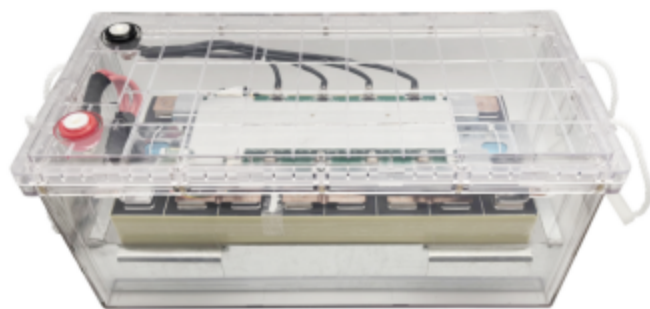


AYAA-24100 (25.6V/100Ah)



Product 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.
- ◆ Free of maintenance .
- ◆ Internal cell balancing.
- ◆ 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 for Series application expansion
 - Solar/Wind energy Storage
 - Golf cart
 - Back-up power for UPS/EPS
 - Tools

Electrical Characteristics

Nominal Voltage	25.6V
Nominal Capacity	100Ah@0.2C
Min. Capacity	100Ah@0.2C
Nominal Energy	2560Wh
Internal Resistance	≤40mΩ
Cycle Life	more than 3000 cycles
Self Discharge	≤3.5% per month at 25°C
Bluetooth	YES

Standard Charging &Discharge

Max.Charging Voltage	28.0~28.8V
Charging Mode	CC-CV
Charging Current	50A
Max.Charging Current	100A
Discharging Current	10A
Max. Continuous Discharging Current	200A
Max.Pulse Discharging Current	250A(<3S)
Discharging Cut-off Voltage	20V

Operating Condition

Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C(-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity

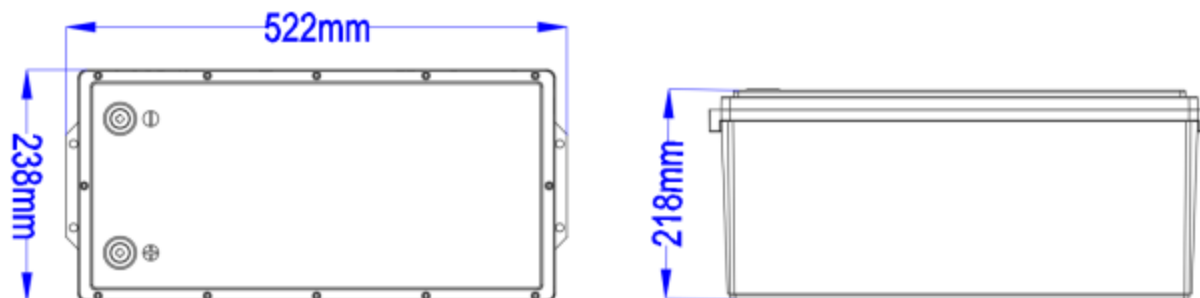
Structure

Casing	Plastic
Dimension(L*W*H*TH)	522*238*218mm
Weight	Approx.20Kg
Terminal	M8
Water Dust Resistance	IP65

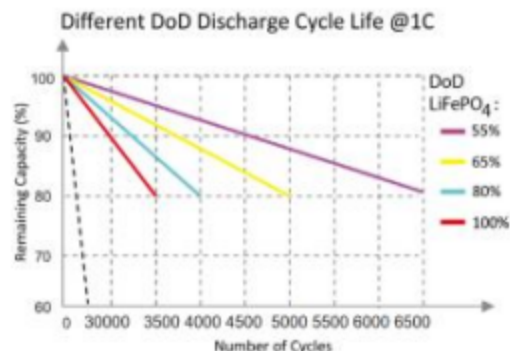
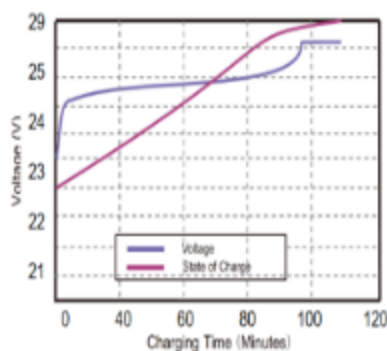
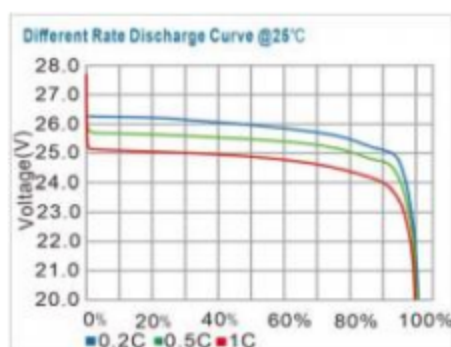
Certifications

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

Dimensions



Characteristic Curves



Market Application



Low-speed car



Golf cart



Light EV



Robotics



Cleaning

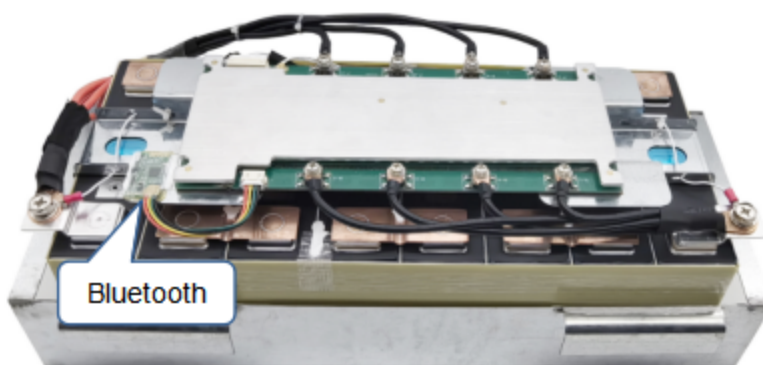
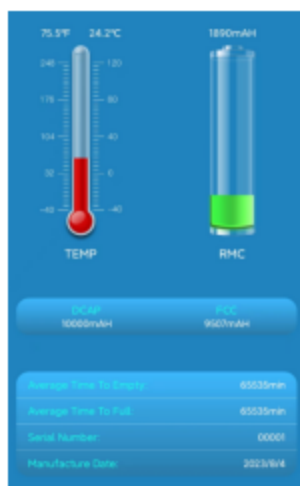


Solar & Wind



Lighting

Bluetooth interface



BMS Parameter

Model	PCM-L08S200-K35
Communication Interface	SMBUS BQ78350R1 (100Ah) With Bluetooth
Normal mode. Load > Sleep Current	$\leq 300\mu\text{A}$
Full Sleep mode. Load < Sleep Current	$\leq 80\mu\text{A}$
Maximal continuous charging current	200A
Maximal continuous discharging current	200A
Balance voltage for single cell	$3.6\text{V} \pm 0.50\text{V}$
Balance current for single cell	$60 \pm 5\text{mA}$
Over charge detection voltage	$3.90 \pm 0.05\text{V}$
Over charge detection delay time	700-1500ms
Over charge release voltage	$3.55 \pm 0.1\text{V}$
Over discharge detection voltage	$2.00 \pm 0.1\text{V}$
Over discharge detection delay time	70-150ms
Over discharge release voltage	$2.7 \pm 0.1\text{V}$
Discharge-over current detection current	$700 \pm 50\text{A}$
Discharge-over current detection Detection delay time	170-410ms
charge temperature protection	$0 \sim +60^\circ\text{C}$
discharge temperature protection	$-20 \sim +65^\circ\text{C}$
SIZE	260*110*11mm

Battery assembly process details

