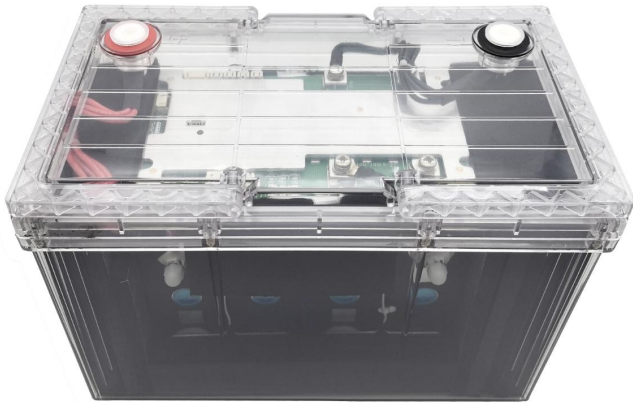


AYAA-12100 (12.8V/100Ah)



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	12.8V
Nominal Capacity	100Ah@0.2C
Min. Capacity	100Ah@0.2C
Nominal Energy	1280Wh
Internal Resistance	≤20mΩ
Cycle Life	more than 3000 cycles
Self Discharge	≤3.5% per month at 25°C
Bluetooth	YES

Standard Charging &Discharge

Max.Charging Voltage	14.0~14.4V
Charging Mode	CC-CV
Charging Current	50A
Max.Charging Current	100A
Discharging Current	50A
Max. Continuous Discharging Current	100A
Max.Pulse Discharging Current	120A(<3S)
Discharging Cut-off Voltage	10V

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

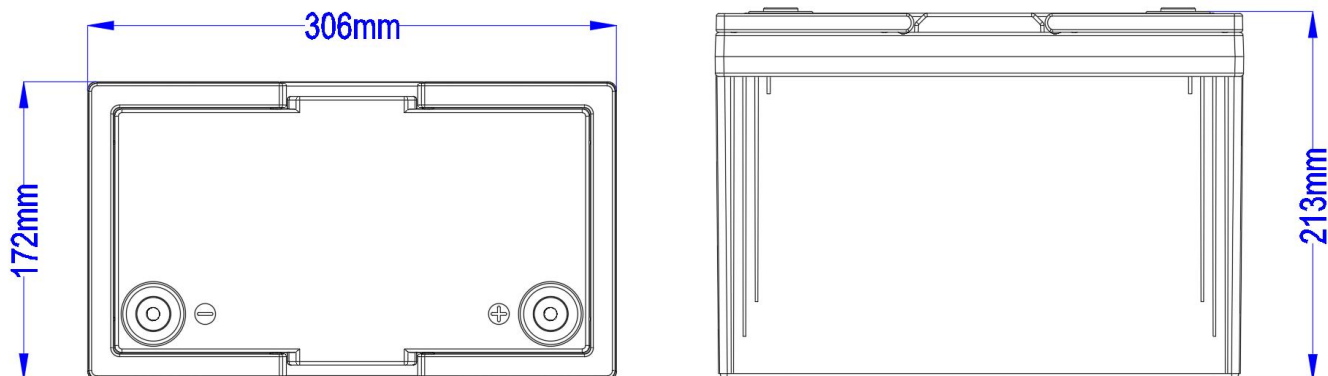
Structure

Casing	Plastic
Dimension(L*W*H*TH)	L306*W172*H213mm
Weight	Approx.12Kg
Terminal	M8
Water Dust Resistance	IP65

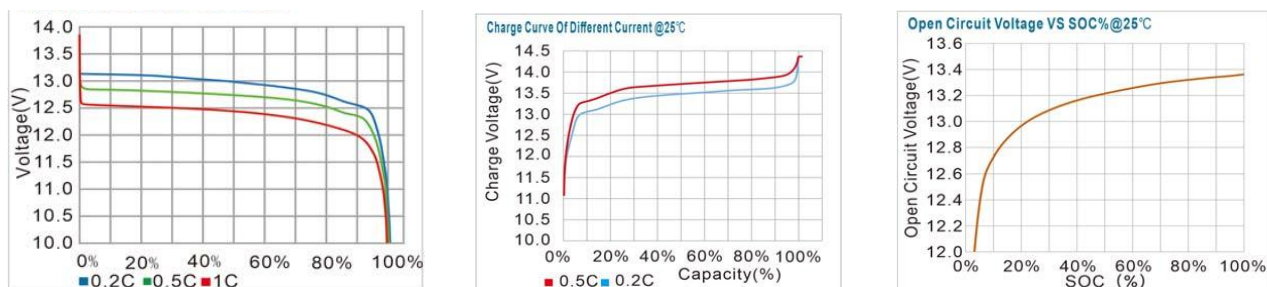
Certifications

■ 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

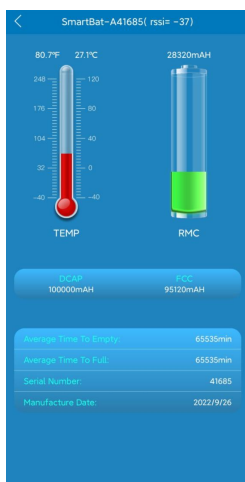


Solar & Wind



Lighting

Bluetooth interface



BMS Parameter

Model	PCM-L04S100-J99(A-2)
Communication Interface	Uart (100Ah) With Bluetooth
Normal mode. Load > Sleep Current	≤6000uA
Full Sleep mode. Load < Sleep Current	≤500uA
Maximal continuous charging current	100A
Maximal continuous discharging current	100A
Balance voltage for single cell	3.6V±0.50V
Balance current for single cell	50±5mA
Over charge detection voltage	3.75±0.025V(Adjustable)
Over charge detection delay time	2s(Adjustable)
Over charge release voltage	3.5±0.025V(Adjustable)
Over discharge detection voltage	2.3±0.025V(Adjustable)
Over discharge detection delay time	2s(Adjustable)
Over discharge release voltage	2.5±0.025V(Adjustable)
Discharge-over current detection current	500±30A(Adjustable)
Discharge-over current detection Detection delay time	160ms(Adjustable)
charge temperature protection	0~+60℃
discharge temperature protection	-20~+65℃
SIZE	200*110*11mm

Battery assembly process details

