Low Voltage All-In-One Battery

Model:
ZL-AIO-SP1-5.0
ZL-AIO-SP1-10.0
ZL-AIO-SP1-15.0

Safety

- LFP safe technology
- High quality Battery cell inside
- Modular design with simple cable connections

Compatiblity&Reliable

- Integraged with Hybrid Inverters
- Better Inner Structure Design

Intelligent

- Each Battery with Independent BMS)
- Power output smartly and effectively

Technical Datasheet

System Data	Battery module	ZL-AIO-SP1-10.0	ZL-SGM-SP1-10.0	ZL-AIO-SP1-15.0
	Cell type	LiFePO4		
	Module quantity	2	3	4
	Nominal energy[1]	5.12 kWh	10.24 kWh	15.36 kWh
	Usable energy[2]	4.61 kWh	9.21 kWh	13.82 kWh
	Nominal voltage	51.2 V	51.2 V	51.2 V
	Operating voltage	44.8 V ~ 57.6 V	44.8 V ~ 57.6 V	44.8 V ~ 57.6 V
	Nominal charging / discharging current	50 A		
	Max. charging / discharging current	100 A		
General Data	Dimensions（W/D/H）	640/216/1200mm	640/216/1655mm	640/216/2110mm
	Weight	~110 kg	~180kg	245 kg
	Battery module weight	~67 kg		
	Installation location	Indoor		
	Mounting method	Floor mounted		
	Operating temperature range	Charge: 0 ~ 55 °C Discharge: -20 °C ~ 55 °C		
	Storage temperature range	-20 °C ~ 45 °C		
	Cooling concept	Natural convection		
	Degree of protection	IP56		
	Relative humidity	5~95 %, non-condensing		
	Communication	RS485 / CAN		
	Certification	CE/ROHS/ UN38.3		
	Life time@25°C	6000 times		

1. Nominal energy is defined under the following conditions: cell voltage 2.0 ~ 3.65 V, 1C charge & discharge at +25 °C.
2. Usable energy is defined under the following conditions: 90 % DOD, 1C charge & discharge at +25 °C.
   Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.
3. Life cycle is defined under the following conditions: 80 % DOD, 0.2C charge & discharge at +25 °C.

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