

LOW VOLTAGE BATTERY SERIES

AU51100-W-IS RECHARGEABLE LFP BATTERY



High Efficiency

- Charge/discharge efficiency $\geq 99\%$
- Depth of Discharge (DOD) up to 90%
- High-density LiFePO₄ cells



Reliability and Safety

- Cycle life: 6,000+cycles
- Advanced BMS with full protection



Scalable and Smart Design

- Compatible with mainstream inverters
- Scalable up to 16 units
- Real-time monitoring via Bluetooth & WiFi



Technical Specification

AU51100-W-IS

BASIC INFORMATION		
Rated Capacity	[kWh]	5.12
Nominal Capacity	[Ah]	100
Rated Voltage	[V]	51.2
Operating Voltage Range	[V]	43.2-58.4
Charging Voltage	[V]	57.6-58.4
Cut-off Voltage	[V]	43.2
Max. Charge Current	[A]	50
Recommended Charging Current	[A]	50
Max. Discharging Current	[A]	100
Recommended Charging & Discharging Power		charge 0.5C / discharge 1C
Battery Type		LFP
Depth of Discharge (DOD)		90%
Nominal Battery Energy	[kWh]	5.12
Usable Battery Energy	[kWh]	4.6
Communication		RS485/CAN/RS232
Protection Level		IP21
Expansion		16
GENERAL PARAMETERS		
Dimension (L×W×H)	[mm]	630*400*160
Weight	[kg]	45
Humidity		5%-95% Relative humidity
Design Life		>8000cycles@25℃, 0.2C, 80%DOD
Warranty Life		>6000cycles@25℃, 0.2C, 80%DOD
Efficiency		≥99%
TEMPERATURE PARAMETERS		
Discharging Temperature	[°C]	-20~+60
Charging Temperature	[°C]	0~+55
Storage Temperature	[°C]	-10~+40
Certification		UN38.3/CE/MSDS



5.12
kWh
Nominal Capacity



6000+
Cycles
Long Cycle Life



IP21
Protection
Level



16
Units
Max. Expansion