

LOW VOLTAGE BATTERY SERIES

AU51100-R-IS RECHARGEABLE LFP BATTERY



High Efficiency

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



Scalable and Smart Design

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



Reliability and Safety

- Cycle life: 6,000+ cycles



5.12

kWh
Nominal Capacity



6000+

Cycles
Long Cycle Life



IP21

Protection
Level



16

Units
Max. Expansion

Technical Specification

AU51100-R-IS

BASIC INFORMATION

Rated Capacity [kWh]	5.12
Nominal Capacity [Ah]	100
Rated Voltage [V]	51.2
Operating Voltage Range [V]	44.8-57.6
Charging Voltage [V]	57.6
Cut-off Voltage [V]	44.8
Max. Charge Current [A]	50
Recommended Charging Current [A]	30
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/RS232/CAN
Protection Level	IP21
Expansion	16
Certification	UN38.3/CE/MSDS

GENERAL PARAMETERS

Dimension (L×W×H) [mm]	484 *450*134
Weight [kg]	42
Humidity	5%-95% Relative humidity
Design Life	>8000cycles@25°C, 0.2C, 80%DOD
Warranty Life	>6000cycles@25°C, 0.2C, 80%DOD
Efficiency	≥99%

TEMPERATURE PARAMETERS

Discharging Temperature [°C]	-10~+55
Charging Temperature [°C]	0~+55
Storage Temperature [°C]	0~+40