

LOW VOLTAGE BATTERY SERIES

RECHARGEABLE LFP BATTERY

AU51100-R



Safety First
Built-in safeguards against overcharging and over-discharging



Easy Setup
Effortless integration into existing rack systems



Durable Performance
Reliable longevity for consistent power supply



Expandable Flexibility
Easily scale up to meet evolving energy needs



Space-Saving Design
Perfect fit for compact residential spaces



Smart Control
Remote monitoring and control for user convenience

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
Life Cycles	≥6000 cycles (0.2C, @25°C, 80%DoD)
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	IP20
Expansion	32
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	>10000cycles@25°C, 0.2C, 80%DOD
Warranty Life	>8000cycles@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