



Max. Charging Current  
100A



Ah Capacity  
105Ah



Life Cycles  
≥6000

**10** Years

Warranty of  
10 Years



## Rechargeable Li-ion Battery

51.2V Low Voltage Input  
High-performance Safety Cells  
Meet The Daily Needs Of Users

## Model

AU51105-R

### Battery Module

Rated capacity	5.12kWh
Available capacity	4.60kWh
Battery module (single-pack)	51.2V-100Ah
Rated power	2.56kW(0.5P)
Rated Voltage (whole system)	51.2V
Operating voltage range	44.8-57.6V
Rated Continuous current	50A (0.5C)
Charging voltage	57.6V supports wide voltage operation
Charging current	≤50A (configurable)
Continuous discharge current	≤100A (configurable)
Max. discharge current	110A(0-10S)
Max. discharge power	4.9kW
Life cycles	≥6000@0.2C
Number of modules (for the whole system)	1
Cell type	IF105 (3.2V-105Ah)
Cell configuration (whole system)	16S/1P
Rated capacity	Test conditions: cell voltage 2.5V-3.65V, 25 ± 3°C temperature range, 0.5C charge and discharge
Active volume	Test conditions: 90% discharge depth, 25 ± 3°C temperature range, 0.5C charge and discharge

### BMU Module Parameters

Typology	15-16 string charge and discharge the same port
Overcharge charging voltage	3.60±0.01V (configurable)
Overcharge release voltage	3.40±0.01V (configurable)
Balanced way	Charge equalisation
Equalizing current	≤100±10mA
Balanced start voltage	3400±10mV
Overdischarge protection voltage	2.7±0.05V
Short-circuit protection	Short circuit detection 500A delay 100us
Discharge protection and recovery mode	Recovery threshold auto-recovery (charging current detected by charging activation (> 1A))

### Technical Description

Size (W×H×D)	515×455×225mm (±5mm)
Weight	55±2kg
Operating temperature	Charge:0°C~55°C/Discharge:-10°C~55°C
Storage temperature	-20-45°C (one month) 0-35°C (1 year) SOC: 50%
Protection class	IP21
Cooling	Natural cooling
Communication method	485/CAN (customisable)