



Max. Charging Current  
100A



Ah Capacity  
105Ah



Life Cycles  
≥6000

**10** Years

Warranty of  
10 Years



## Low voltage battery



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

## Model

**AU51105-R**

### Technical Note

Size (W×H×D mm)	515×455×225
cycles	≥6000
cycles	≥10000(cycles lifespan)
Charging operation temperature	0°C~55°C
Discharging operation temperature	-10°C~55°C
Operating voltage range	43.2-57.6V
Degree of protection	IP21
Cooling	Natural
Communication method	485/CAN (Customizable)

### Battery Module

Capacity	5kWh
Batteries	Lithium iron phosphate
Arrangement	16S1P
Connector	120A single socket
Nominal voltage	51.2V
Nominal capacity	105Ah
Charging protection voltage	57.6V
Max. continuous charge current	100A
Max. continuous discharge current	100A
Max. instantaneous discharge current	250A (30ms)

### BMU Module

Type	15-16 String charge and discharge with the same port
Continuous discharge	≤100A (Configurable)
Max. discharge current	108A (30s)
Charge voltage	58.4V supports wide voltage operation
Charge current	≤50A (Configurable)
Overcharge charge voltage	3.65±0.025V (Configurable)
Overcharge charge release voltage	3.40±0.05V (Configurable)
Balanced mode	Standby equalization (Both charging and discharging)
Balanced current	≤70±5mA
Balanced start-up voltage	3400mV±10mV
Overdischarge protection voltage	2.5±0.05V
Short-circuit protection	Short-circuit detection 500A delay 100us
Discharge protection recovery method	Recovery threshold auto-recovery (Charge activation detected charge current (>3A))

Test conditions: 0.2C charge and discharge @ 25 C , 80% DOD