



## High Voltage Battery

- ☉ 168-648V High Voltage
- ☉ High-performance Safety Cells



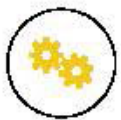
**27A**  
Max. Charging Current



**≥6000**  
Life Cycles



**27Ah**  
Ah Capacity



**Craft**  
Made In Germany



## Technical Specification

### AU-5/7.5/10/12.5/15kWh-SH



Battery module	1	2	3	4	5	6
Dimensions (W x H x D mm)	600×410×240	600×590×240	600×770×240	600×850×240	600×1030×240	600×1210×240
Rated capacity (kWh)	2.59	5.18	7.77	10.36	12.96	15.55
Available capacity (KWh)	2.33	4.66	6.99	9.32	11.66	13.99
Battery module (single pack)	96V-2.59KWh					
Cell type	IFP20100140A-27Ah					
Cell configuration	30S1P	60S1P	90S/1P	120S/1P	150S/1P	180S1P
Rated voltage (V)	96	192	288	384	480	576
Operating voltage (V)	84-108	168-216	168-216	336-432	420-540	504-648
Max. continuous discharge current (A)	27 (1C)					
Max. discharge power (kW)	2.072	4.14	6.21	8.28	10.36	12.44
Communication	CAN					
Charging operating temperature	0℃~50℃					
Discharging operating temperature	-20℃~50℃					
Storage temperature	-20-45℃ (≤1 month) 0-35℃ (≤1 year) SOC≥50%					
Life cycles	≥6000 @ 0.5C/0.5C,25℃					
Altitude (m)	≤2000					
Protection	IP65					
Cooling	Natural					
Installation	Overlay landing					
Rated capacity	Test conditions: cell voltage 2.5V-3.65V, 25±3℃ temperature range, 0.5C charge and discharge					
Available capacity	Test conditions: 90% depth of discharge, 25±3℃ temperature range, 0.5C charge and discharge					



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
Life cycles	≥10000
Charging operation temperature	0°C~55°C
Discharging operation temperature	-10°C~55°C
<b>Operating voltage range</b>	<b>43.2-57.6V</b>
Degree of protection	IP21
Cooling	Natural
<b>Communication method</b>	485/CAN (Customizable)
Battery Module	
<b>Capacity</b>	5kWh
<b>Batteries</b>	Lithium iron phosphate
Arrangement	<b>16S1P</b>
Connector	120A single socket
<b>Nominal voltage</b>	<b>51.2V</b>
Nominal capacity	105Ah
<b>Charging protection voltage</b>	<b>57.6V</b>
Max. continuous charge current	100A
<b>Max. continuous discharge current</b>	100A
<b>Max. instantaneous discharge current</b>	250A (30ms)
BMU Module	
Type	<b>15-16 String charge and discharge with the same port</b>
<b>Continuous discharge</b>	<b>≤100A (Configurable)</b>
<b>Max. discharge current</b>	108A (30s)
<b>Charge voltage</b>	<b>58.4V supports wide voltage operation</b>
Charge current	<b>≤50A (Configurable)</b>
<b>Overcharge charge voltage</b>	<b>3.65±0.025V (Configurable)</b>
<b>Overcharge charge release voltage</b>	<b>3.40±0.05V (Configurable)</b>
<b>Balanced mode</b>	<b>Standby equalization (Both charging and discharging)</b>
<b>Balanced current</b>	<b>≤70±5mA</b>
<b>Balanced start-up voltage</b>	<b>3400mV±10mV</b>
<b>Overdischarge protection voltage</b>	<b>2.5±0.05V</b>
Short-circuit protection	<b>Short-circuit detection 500A delay 100us</b>
<b>Discharge protection recovery method</b>	<b>Recovery threshold auto-recovery (Charge activation detected charge current (&gt;3A))</b>

## Release the Potential of Your Solar Storage System

### Smart Integration BESS

Low Voltage / AU51105-W



### Unique Product Features

- 🔒 Multi-protection from BMS
- 💰 Long cycle lifeSpan with lower costs
- 📏 Friendly size and weight
- 🔋 5.12kwh-LiFePO4 battery cells



# High Voltage Battery

Model	AU51105-W
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
Rated Continuous current	50A (0.5C)
Charging voltage	57.6V supports wide voltage operation
Charging current	≤50A (configurable)
Continuous discharge current	≤100A (configurable)
Maximum discharge current	110A(0-10S)
Maximum discharge power	4.9kW
Life cycles	≥10000@0.5C
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℃ temperature range, 0.5C charge and discharge
Active volume	Test conditions: 90% discharge depth, 25 ± 3℃ 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	
Dimensions (w×h×d)	520.5*714*197.5mm (±5mm)
Weights	64±2KG
Operating temperature	Charge: 0℃ ~50℃ / discharge: -20℃ ~50℃
Storage temperature	-20-45℃ (one month) 0-35℃ (1 year) SOC: 50%
Operating voltage range	44.8-57.6V
Protection class	IP65
Cooling	Natural cooling
Communication method	485/CAN (customisable)
Fire Fighting methods	Aerosolsc
Fire-fighting mode and trigger time	Hot start aerosol with feedback BMS protection lead device; Protection space: 0.8m³, trigger time: 3S
Way to install	Wall mounting type