



Release the Potential of Your Solar Storage System

Rechargeable Li-ion Battery

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



...



+86 574 89137130

www.austasolar.net

marketing@osdasol.com

| 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 |
| 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) |
| Maximum discharge current | 110A(0-10S) |
| Maximum 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) | 520.5*714*197.5mm (±5mm) |
| Weight | 64±2kg |
| Operating temperature | Charge: 0 °C ~50 °C / discharge: -20 °C ~50 °C |
| Storage temperature | -20-45 °C (one month) 0-35 °C (1 year) SOC: 50% |
| 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 |