

ESS

Rack/ Cabinet Lithium Battery Energy Storage System



The ESS system is a high-performance off-grid energy storage system independently developed by ANBO SUNNY. It uses high-quality lithium iron phosphate cells and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, good sealing, and is equipped with high-frequency off-grid the inverter, built-in MPPT controller, provides efficient and reliable energysolutions for PV off-grid power generation systems, homes PV storage systems, and industrial and commercial energy storage systems.

The system is equipped with a self-developed APP, supports IOS/ Android mobile phones, remotely controls the charging and discharging of the ESS system, and real-time system operation data. When the system fails, it can be quickly eliminated and the effective power supply can be restored efficiently.

| Model | ALB-ESS-5 | ALB-ESS-10 | ALB-ESS-15 | ALB-ESS-20 |
|---|--|--------------|--------------|--------------|
| Capacity | 5.12KWh/5KW | 10.24KWh/5KW | 15.36KWh/5KW | 20.48KWh/5KW |
| Standard discharge current | 50A | 50A | 50A | 50A |
| Max. discharge current | 100A | 100A | 100A | 100A |
| Working voltage range | 43.2-57.6VDC | 43.2-57.6VDC | 43.2-57.6VDC | 43.2-57.6VDC |
| Standard Voltage | 51.2VDC | 51.2VDC | 51.2VDC | 51.2VDC |
| Max. charging current | 50A | 50A | 50A | 50A |
| Max. charging voltage | 57.6V | 57.6V | 57.6V | 57.6V |
| Rated PV input voltage | 360VDC | | | |
| MPPT tracking voltage range | 120V-450V | | | |
| Max input voltage (VOC) at lowest temperature | 500V | | | |
| Max input power | 6000W | | | |
| Number of MPPT tracking paths | 1Path | | | |
| DC input voltage range | 42-60VDC | | | |
| Rated mains power input voltage | 220VAC/230VAC/240VAC | | | |
| Grid power input voltage range | 170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode) | | | |
| Grid input frequency range | 45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz) | | | |
| Inverter output efficiency | 94%(MAX) | | | |
| Inverter output voltage | 220VAC±2%/ 230VAC±2%/ 240VAC±2%(Inverter mode) | | | |
| Inverter output frequency | 50Hz±0.5 or 60Hz±0.5(Inverter mode) | | | |
| Inverter output waveform | Pure sine wave | | | |
| Grid output efficiency | >99% | | | |
| Max mains charging current | 60A | | | |
| Max PV charging current | 100A | | | |
| Max charging current (Grid+PV) | 100A | | | |
| Optional mode | Grid priority/ PV priority/ Battery priority | | | |
| Warranty | 5~10Years | | | |
| Communication | Optional: RS485/RS232/ CAN WFi/4G/Bluetooth | | | |

*Voltage, capacity, size/ color customization, OEM/ ODM services can be provided according to customer needs