

LIQUID COOLING ESS



HIGH PERFORMANCE

- Premium 314Ah LFP battery with guaranteed quality, high power density
- Three-phase four-bridge arm architecture PCS. 100% unbalanced support
- Scalable up to Mwh

ASSUMED SAFETY

- 5-layer fire protection design secures minimal risk and loss
- Battery compartment and electrical compartment are isolated.
- Certification: IEC63056, IEC62619, IEC62477, IEC61000, UN38.3

MULTI-STRATEGY

- Integration of EMS inside
- Support peak shaving and valley filling, demand control, emergency backup
- Support Modbus, MQTT protocol and IEC104 protocol, can participate in peak and frequency modulation

QUICK DEPLOYMENT

- Pre-install in factory, plug-and-play installation
- Support hoisting/fork construction
- Remote O&M management, support WEB, Cloud & APP

Technical Specifications

| | | |
|--------------------|-----------------------------|--|
| | Model Number | LiquidCooling ESS |
| Battery Rating | Cell Type | LFP / 314Ah |
| | Battery Configuration | 1P260S |
| | Rated Voltage | 832 V |
| | Battery Voltage Range | 728 V - 936 V |
| | Rated Capacity | 216 kWh |
| AC Side (on-grid) | Rated AC Power | 125 kW |
| | Rated AC Voltage | 3L/N/PE, 230-400 V |
| | Rated AC Current | 180 A |
| | Nominal Frequency | 50/60 Hz |
| | Frequency Range | 50 / 60 Hz ± 2.5 Hz |
| | Max. THD of Current | < 3 % (Nominal power) |
| | DC Component | < 0.5% (Nominal Power) |
| | Power Factor | 0.99 leading ~ 0.99 lagging |
| AC side (off-grid) | Rated AC Voltage | 3L/N/PE, 230/400 V |
| | Rated AC Current | 180A |
| | Nominal Frequency | 50 / 60 Hz |
| | Max.TH D of Voltage | <3% (Linear load) |
| | Unbalanced Load Capacity | 100% |
| General Data | Dimensions (W*H*D) | 1000 x 2402 x 1467 mm |
| | Weight | 2620 kg |
| | Protection Degree | IP55 |
| | Anti-corrosion Degree | C5 (default) C4 (Optional) |
| | Operating Humidity Range | 0 ~ 100% |
| | Operating Temperature Range | -30 ~ 55°C (> 45 °C derating) |
| | Max. Operating Altitude | 3000m |
| | Cooling Method | Liquid Cooling |
| | Noise | ≤70 dB |
| | Fire Suppression System | Flammable gas detector, Smoke detector, Heat detector, Alarm sounder, Smoke exhaust fan, Aersol, Sprinkler |
| | Communication Interface | Ethernet / Wifi / 4G |
| | Communication Protocol | Modbus TCP |
| | Standard | IEC 62619, IEC60730, IEC 63056, IEC 62477, IEC 61000, UN 38.3 |