

SL50/107CR NEW

C&I Energy Storage System



Product Feature

- Space grade fire protection, water fire protection and vented explosion design, safe and reliable;
- Intelligent liquid cooling technology and efficient thermal management can balance heat dissipation, cell temperature difference ≤ 2.1 °C;
- Full stack self-developed and integrated BMS/Inverter/Pack, moduled design for fast installation;
- AC/DC modular design, systematic delivery, and more convenient for maintenance;
- Free online monitoring to enhance energy management;
- Save Capex, expanding as required, max. 10 cabinets parallel operation;

| Model | SL50/107CR |
|----------------------------------|---|
| PV side | |
| Max. input voltage | 1000 V |
| MPPT voltage range | 135-900 V |
| Max. current per MPPT | 40 A |
| Number of MPPT | 4 |
| Number of inputs per MPPT | 2 |
| Battery side | |
| Battery type | LFP |
| Cell parameter | 280Ah 3.2V |
| PACK configuration | 53.75kWh/1P60S |
| Battery system configuration | 107.5kWh/1P120S |
| Max. DC Current | 150 A |
| Operating voltage range | 324-438 V |
| Hybrid side | |
| Rated Output Power | 50 kW |
| Max. AC output power | 55 kW |
| AC output system | TN |
| Total Harmonic Distortion (THDv) | <3% (Linear load) |
| DC component | <0.5% (Rated power) |
| Nominal AC voltage | 3L/N/PE, 230/400Vac |
| Grid voltage range | 323-418V |
| Adjustable Power Factor Range | -1--+1 |
| Nominal grid frequency | 50 Hz/60 Hz |
| frequency range | 45-55 Hz/55-65 Hz |
| General parameters | |
| Dimensions (W×H×D) | 1050 x 2000 x 1600 mm |
| Weight | < 2000 kg |
| Max. efficiency | ≥ 90% |
| Charge/Discharge rate | ≤ 0.5C |
| Cycle index | ≥ 8000 times * |
| Ingress Protection Rating | IP55 |
| Auxiliary power supply | Self-powered and external power supply |
| Operation temperature range | -35°C ~+55°C (>45°C derating) |
| Operation humidity range | 0-100% |
| Max. operation altitude | 4000 m (>2000 m derating) |
| Noise | ≤70dB |
| Anti corrosion level | C3 (standard), C5 (optional) |
| Battery temperature control mode | Intelligent liquid cooling |
| Fire safety configuration | Smoke sensing, temperature sensing, combustible gas detector, sound and light alarm Space grade fire protection, submerged water fire protection |
| Communication port | Ethernet/CAN/RS485 |
| Communication protocol | IEC61850/Modbus |
| Standards Compliance | |
| Grid Connection | NB/T 32004, GB/T 34120/34133, EN 50549-1, CEI 0-21, VDE-AR-N 4105, NTS Type A&B, RD 1699/661/413/647/244/2019, UNE 206006/206007/217001/217002 |
| Safety Regulation | EN/IEC 62109-1/2, IEC 62619, GB/T36276 |
| Others | EN/IEC 61000-6-1/2/3/4 |

*25°C, 0.5C, 70% SOH