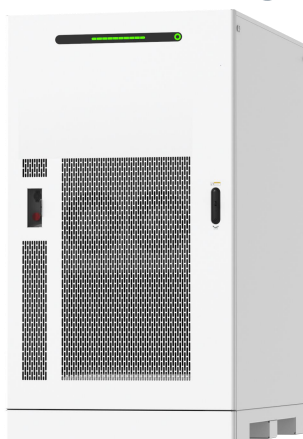


# HUAWEI LUNA2000-241-2S1

## C&I Hybrid Cooling Grid Forming ESS



More Energy



Simple O&M



Safe & Reliable

### Energy Storage System Parameters

|                                   |                                                                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model type                        | LUNA2000-241-2S1                                                                                                                                           |
| Rated capacity                    | 241.0kWh                                                                                                                                                   |
| Maximum cycle efficiency          | 91.3%                                                                                                                                                      |
| Depth of charge and discharge     | 0~100%                                                                                                                                                     |
| Dimensions (W x D x H)            | 1150mm×1800mm×2100mm                                                                                                                                       |
| Weight                            | < 2.8 T                                                                                                                                                    |
| Operating temperature range       | -30 °C ~ 55 °C (> 50°C Derating)                                                                                                                           |
| Storage temperature range         | -35 °C ~ 60 °C                                                                                                                                             |
| Operating humidity range          | 0 ~ 100%RH (non-condensing)                                                                                                                                |
| Maximum operating altitude        | 4,000 m                                                                                                                                                    |
| System temperature control mode   | Hybrid cooling                                                                                                                                             |
| Balance mode                      | Active balance                                                                                                                                             |
| SOC calibration mode              | Automatic                                                                                                                                                  |
| Fire suppression mode             | Pack-level oxygen barrier, Directional gas exhaust, Top explosion vent, Aerosol                                                                            |
| Auxiliary power supply            | 176~300 Vac, single phase, ≤5 kW                                                                                                                           |
| Power consumption standby         | ≤150 W                                                                                                                                                     |
| Communication port                | Ethernet / Optical fiber                                                                                                                                   |
| Communication protocol            | Modbus TCP                                                                                                                                                 |
| Protection degree                 | IP55                                                                                                                                                       |
| EMC protection rating             | Class B                                                                                                                                                    |
| Noise (rated operating condition) | ≤65 dB(A)                                                                                                                                                  |
| Lightning protection              | Type II (AC port)                                                                                                                                          |
| Protection mode                   | Anti-islanding protection, residual current detection, insulation resistance detection, AC overcurrent protection, and AC cable connection protection      |
| Environment                       | RoHS6                                                                                                                                                      |
| Certification standards           | UL9540A; UN38.3; IEC 62477-1; IEC 62040-1; IEC 61000-6-1/2/3/4; IEC 62619; IEC 60529; VDE-AR-E 2510-2/50; IEC 62933-5-1/2; IEC 61727; EN 50549; GB/T 34120 |

### Battery Parameters (DC)

|                              |           |
|------------------------------|-----------|
| Cell material                | LFP       |
| Rated battery capacity       | 314Ah     |
| System battery configuration | 240S1P    |
| Number of battery packs      | 4         |
| Operating voltage range      | 648~852 V |
| Rated DC current             | 155.9 A   |

### PCS Parameters (AC)

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| PCS model type                                          | PCS2000-108K-MB1                     |
| Rated output power                                      | 108 kW                               |
| Rated AC current                                        | 155.9 A                              |
| AC voltage & frequency                                  | 380 / 400 / 415 V (3P4W), 50 / 60 Hz |
| Adjustable power factor range                           | -1 ... +1                            |
| AC current harmonics THDi (rated output power @on-grid) | ≤1.5 %                               |
| AC Voltage harmonics THDu (linear load @off-grid)       | ≤2.0 %                               |

#### Note:

\* Rated operating condition: In the on-grid scenario, the ambient temperature is 25°C, and the AC output voltage is 400 Vac.