

# LUNA2000-200KWH-2H1 Smart String ESS



More Energy



Simple O&M



Safe & Reliable

## Energy Storage System Parameters

|   |                                  |
|---|----------------------------------|
| Battery Configuration                                 | 12S1P                            |
| Maximum battery capacity of the energy storage system | 193.5 kWh                        |
| Rated Power   | 100 kW                           |
| Dimensions (W x H x D), including DC/DC and PCS       | 2570mm×2135mm×1200mm             |
| Dimensions (W x H x D)                                | 1810mm×2135mm×1200mm             |
| Weight (including the battery module)                 | ≤2950kg                          |
| Weight (without the battery module)                   | ≤1070kg                          |
| Operating temperature range                           | -30 °C ~ 55 °C                   |
| Storage temperature range                             | -40 °C ~ 60 °C                   |
| Operating humidity range                              | 0 ~ 100% (non-condensing)        |
| Maximum operating altitude                            | 4,000 m                          |
| Installation Environment Requirement                  | Outdoor installation             |
| Battery temperature control mode                      | Industrial-grade air conditioner |
| Fire suppression of energy storage system             | YES                              |
| Auxiliary Power Supply                                | 220Vac, ≤4.2kW                   |
| Communication port                                    | Ethernet / SFP                   |
| Communication protocol                                | Modbus TCP                       |
| Protection degree                                     | IP55                             |
| EMC Protection Rating                                 | ClassA                           |
| DC Lightning Protection                               | Type II                          |

## Standards

|                         |  |
|-------------------------|--|
| Environment             | RoHS6                                    |
| Certification Standards | GBT 36276-2018; IEC62619; UL9540A;UN38.3 |

# Battery Pack & Smart Rack Controller

## Smart String ESS



| Battery Pack                      |                    |
|-----------------------------------|--------------------|
| General                           |                    |
| Cell Material                     | LFP                |
| Nominal Capacity                  | 16.13kWh           |
| Supported Charge & Discharge Rate | ≤ 0.5 C            |
| Weight                            | ≤ 140 kg           |
| Dimensions (W x H x D)            | 442 x 308 x 660 mm |



| Smart Rack Controller   |                    |
|-------------------------|--------------------|
| Efficiency              |                    |
| Max. Efficiency         | ≥ 98.5.0%          |
| Battery Side            |                    |
| Rated Voltage           | 691.2@280Ah        |
| Operating Voltage Range | 40 V ~ 1,050 V     |
| Min. Start Voltage      | 350 V              |
| Bus Side                |                    |
| Max. DC Voltage         | 1,100 V            |
| Rated Voltage           | 665 V              |
| Rated Current           | 76.3 A             |
| General                 |                    |
| Dimensions (W x H x D)  | 600 x 820 x 270 mm |
| Weight                  | ≤ 90 kg            |
| Cooling Method          | Smart Air Cooling  |
| Protection Degree       | IP66               |

