

# SMART STRING ENERGY STORAGE SYSTEM

LUNA2000-5/10/15-S0



### More Usable Energy

100% Depth of Discharge and Pack-Level Energy Optimization



### Flexible Investment

5 kWh Modular Design, Scalable from 5 to 30 kWh



### Safe & Reliable

5-layer Safety Protection  
IP66



### Easy Installation

12 kg Power Module  
50 kg Battery Module



### Quick Commissioning

Automatic Device  
Discovery by the App

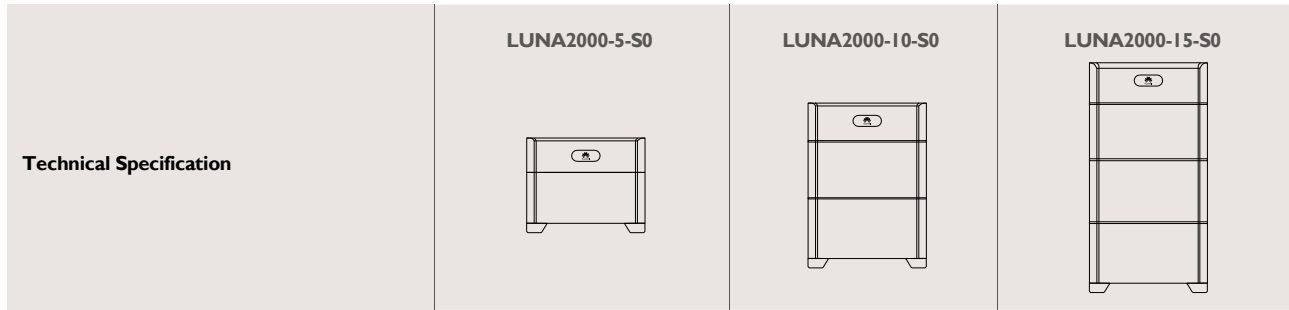


### Perfect Compatibility

Compatible to Single & Three  
Phase Inverters

# LUNA2000-5/10/15-S0

## Technical Specification



| Performance  |   |   |  |
|--|---|---|--|
| Power module                                       | LUNA2000-5KW-C0   |   |  |
| Number of power modules                            | 1   |   |  |
| Battery module                                     | LUNA2000-5-E0   |   |  |
| Battery module nominal capacity                    | 5 kWh   |   |  |
| Battery module usable capacity <sup>1</sup>        | 5 kWh   |   |  |
| Number of battery modules                          | 1   | 2   | 3  |
| Battery nominal capacity                           | 5 kWh   | 10 kWh  | 15 kWh   |
| Battery usable capacity <sup>1</sup>               | 5 kWh   | 10 kWh  | 15 kWh   |
| Max. output power                                  | 2.5 kW  | 5 kW  | 5 kW   |
| Peak output power                                  | 3.5 kW, 10 s  | 7 kW, 10 s  | 7 kW, 10 s   |
| Nominal voltage (single-phase system)              | 450 V   |   |  |
| Operating voltage range (single-phase system)      | 350-560 V   |   |  |
| Nominal voltage (three-phase system)               | 600 V   |   |  |
| Operating voltage range (three phase system)       | 600 ~ 980 V   |   |  |
| Communication                                      |   |   |  |
| Display  | SOC status indicator, LED indicator   |   |  |
| Communication                                      | RS485/CAN (only for parallel operation)   |   |  |
| General Specification                              |   |   |  |
| Dimensions (W x D x H)                             | 670 mm x 150 mm x 600 mm<br>(26.4 in. x 5.9 in. x 23.6 in.)   | 670 mm x 150 mm x 960 mm<br>(26.4 in. x 5.9 in. x 37.8 in.) | 670 mm x 150 mm x 1320 mm<br>(26.4 in. x 5.9 in. x 60.0 in.) |
| Weight (Floor stand toolkit included)              | 63.8 kg (140.7 lb)  | 113.8 kg (250.9 lb)   | 163.8 kg (361.1 lb)  |
| Power module dimension (W x D x H)                 | 670 mm x 150 mm x 240 mm (26.4 in. x 5.9 in. x 9.4 in.)   |   |  |
| Power module weight                                | 12 kg (26.5 lb)   |   |  |
| Battery module dimensions (W x D x H)              | 670 mm x 150 mm x 360 mm (26.4 in. x 5.9 in. x 14.0 in.)  |   |  |
| Battery module weight                              | 50 kg (110.2 lb) <sup>2</sup>   |   |  |
| Installation                                       | Floor stand (standard), Wall mount (optional)   |   |  |
| Operating temperature                              | -20°C to +55°C (-4°F to +131°F) <sup>3</sup>  |   |  |
| Max. operating altitude                            | 4,000 m (13,123 ft.) (Derating above 2,000 m)   |   |  |
| Environment  | Outdoor / Indoor <sup>4</sup>   |   |  |
| Relative humidity                                  | 5%-95% RH   |   |  |
| Cooling  | Natural convection  |   |  |
| IP rating  | IP 66   |   |  |
| Noise emission <sup>5</sup>                        | < 29 dB   |   |  |
| Cell technology                                    | Lithium-iron phosphate (LiFePO <sub>4</sub> )   |   |  |
| Warranty <sup>6</sup>                              | 10 év   |   |  |
| Compatible inverters <sup>7</sup>                  | SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-8/10K-LC0<br>SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20/25K-MB0, SUN2000-5/6/8/10/12K-MAP0 |   |  |
| Standards Compliance (More Available Upon Request) |   |   |  |
| Certificates                                       | CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3   |   |  |
| Ordering and Deliverable Part                      |   |   |  |
| Available for ordering <sup>8</sup>                | LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall Mounting Bracket  |   |  |

\*1 Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C, at the beginning of life. **On-grid system scenario** (grid connected with PV and battery energy storage connected): the minimum end of discharge SOC is 0%, then usable capacity of each battery module is 5 kWh (100% depth of discharge). **Off-grid system scenario** (no utility connection): if the system has not detected sunlight for at least 24 hours, the minimum end of discharge SOC is 15%, then usable capacity of each battery module is 4.25 kWh. **Standalone energy storage system scenario** (no PV modules connected), the minimum end of discharge SOC is 15%, then usable capacity of each battery module is 4.25 kWh.

\*2 The weight of the battery module is subject to the actual product, with a tolerance of ±3%.

\*3 Refer to battery warranty letter for conditional application.

\*4 Outdoor installation is recommended. For indoor installation, refer to the user manual for instruction.

\*5 Noise level (typical): < 29 dB(A) @ 1 m, 30°C, power on and run stably for 2 hours

\*6 Pls. refer to the battery warranty letter for details.

\*7 Please contact local engineer for the compatibility.

\*8 Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.