

# Smart String Energy Storage System



## More Usable Energy

100% Depth of Discharge  
Pack Level Energy Optimization



## Flexible Investment

5kWh Modular Design,  
Scalable from 5 to 30 kWh



## Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



## Easy Installation

12 kg Power Module  
50 kg Battery Module



## Quick Commissioning

Automatically Detected in App



## Perfect Compatibility

Compatible to Both Residential  
Single & Three Phase Inverter

# LUNA2000-5/10/15-S0

## Technical Specification

|                         | LUNA2000-5-S0                                                                     | LUNA2000-10-S0                                                                     | LUNA2000-15-S0                                                                      |
|-------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Technical Specification |  |  |  |

| Performance                                   |                 |            |            |
|-----------------------------------------------|-----------------|------------|------------|
| Power module                                  | LUNA2000-5KW-C0 |            |            |
| Number of power modules                       | 1               |            |            |
| Battery module                                | LUNA2000-5-E0   |            |            |
| Battery module energy                         | 5 kWh           |            |            |
| Number of battery Modules                     | 1               | 2          | 3          |
| Battery usable energy <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                 |                                                                                                           |                                                |                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Dimension (W*D*H)                     | 670 * 150 * 600 mm<br>(26.4 * 5.9 * 23.6 inch)                                                            | 670 * 150 * 960 mm<br>(26.4 * 5.9 * 37.8 inch) | 670 * 150 * 1320 mm<br>(26.4 * 5.9 * 60.0 inch) |
| 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*D*H)        | 670 * 150 * 240 mm (26.4 * 5.9 * 9.4 inch)                                                                |                                                |                                                 |
| Power module weight                   | 12 kg (26.5 lb)                                                                                           |                                                |                                                 |
| Battery module dimension (W*D*H)      | 670 * 150 * 360 mm (26.4 * 5.9 * 14.0 inch)                                                               |                                                |                                                 |
| Battery module weight                 | 50 kg (110.2 lb) <sup>2</sup>                                                                             |                                                |                                                 |
| Installation                          | Floor stand (standard), Wall mount (optional)                                                             |                                                |                                                 |
| Operating temperature                 | -20°C ~ + 55°C (-4°F ~ 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> (*Please refer to the user manual for installation condition)               |                                                |                                                 |
| Relative humidity                     | 5% ~ 95%                                                                                                  |                                                |                                                 |
| Cooling                               | Natural convection                                                                                        |                                                |                                                 |
| Protection rating                     | IP 66                                                                                                     |                                                |                                                 |
| Noise emission                        | <29 dB                                                                                                    |                                                |                                                 |
| Cell technology                       | Lithium-iron phosphate (LiFePO4)                                                                          |                                                |                                                 |
| Scalability                           | Max. 2 systems in parallel operation                                                                      |                                                |                                                 |
| Compatible inverters                  | SUN2000-2/3/3.68/4/4.6/5/6KTL-L1,<br>SUN2000-3/4/5/6/8/10KTL-M0 <sup>5</sup> , SUN2000-3/4/5/6/8/10KTL-M1 |                                                |                                                 |

| Standard Compliance (more available upon request) |                                                       |
|---------------------------------------------------|-------------------------------------------------------|
| Certificates                                      | CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3 |

| Ordering and Deliverable Part       |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Product ordering model <sup>6</sup> | LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall Mounting Bracket |

- Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C, at the beginning of life. If no PV modules are installed or the system has not detected sunlight for at least 24 hours, the minimum end of discharge SOC is 15%.
- The weight of the battery module is subject to the actual product, with a tolerance of  $\pm 3\%$
- Refer to battery warranty letter for conditional application.
- Improper storage system installation may compromise product warranty and operation safety. Please follow the user manual during the installation, use, and maintenance of the storage system.
- Please contact local engineer for the compatibility between the SUN2000-3/4/5/6/8/10KTL-M0 with the LUNA2000.
- Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.