

# Residential Smart String Energy Storage System

LUNA2000-7/14/21-S1

## Technical Specification

LUNA2000-7-S1

LUNA2000-14-S1

LUNA2000-21-S1

### Performance

Power module	LUNA2000-10KW-C1		
Number of power modules	1		
Battery module	LUNA2000-7-E1		
Battery module energy	6.9 kWh		
Number of battery Modules	1	2	3
Battery usable energy <sup>1</sup>	6.9 kWh	13.8 kWh	20.7 kWh
Max. output power	3.5 kW	7 kW	10.5 kW
Peak output power	3.5 kW	7 kW	10.5 kW
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 / FE

### General Specification

Dimension (W*D*H)	590 * 245 * 510 mm (23.2 * 9.6 * 20.0 inch)	590 * 245 * 870 mm (23.2 * 9.6 * 34.3 inch)	590 * 245 * 1230 mm (23.2 * 9.6 * 48.4 inch)
Weight (Floor stand toolkit included)	81.5 kg (179.7 lb)	149.5 kg (329.6 lb)	217.5 kg (479.5 lb)
Power module dimension (W*D*H)	590 * 255 * 150 mm (23.2 * 10.0 * 5.9 inch)		
Power module weight	11 kg (24.3 lb)		
Battery module dimension (W*D*H)	590 * 255 * 360 mm (23.2 * 10.0 * 14.2 inch)		
Battery module weight	68 kg (149.9 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 <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 (1 m away)		
Cell technology	Lithium-iron phosphate (LiFePO <sub>4</sub> )		
Scalability	Max. 4 systems in parallel operation		
Compatible inverters <sup>5</sup>	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-8K/10K-LC0, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12K/15K/17K/20K/25K-MB0		

### Standard Compliance (more available upon request)

Certificates	VDE2510, IEC, UN, RoHS, WEEE, REACH, ABNT NBR
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### Ordering and Deliverable Part

Product ordering model <sup>6</sup>	LUNA2000-7-E1, LUNA2000-10KW-C1, LUNA2000 Wall Mounting Bracket
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- 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 ±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.
- Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.