



LUNA2000
Smart String
Energy Storage
System



HUAWEI LUNA2000 Smart String Energy Storage System Owner's Manual

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HUAWEI LUNA2000 Smart String Energy Storage System



Specifications

- **Model:** LUNA2000-5-S0
- **Modular Design:** 5kWh, scalable from 5 to 30 kWh
- **Cell Type:** Lithium Iron Phosphate (LFP)
- **Weight:** Power module – 12 kg, Battery module – 50 kg
- **Installation:** Easy installation with quick commissioning
- **Compatibility:** Compatible with both residential single & three-phase inverters

Product Usage Instructions

Installation:

- The product comes with a power module and a battery module. Ensure proper handling during installation.
- Refer to the user manual for detailed installation instructions. The power module weighs 12 kg, and the battery module weighs 50 kg.

Commissioning:

The product is automatically detected in the app for quick commissioning. Follow the app instructions for setup.

Compatibility:







Ensure compatibility with your inverter system, whether single or three-phase. Connect the product accordingly for optimal performance.

Maintenance:

Regularly check the SOC status indicator and LED indicator for battery status. Refer to the user manual for maintenance guidelines.




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

Technical Specification		LUNA2000-10-S0		LUNA2000-15-S0	
	LUNA2000-5-S0				
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 1	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 (26.4 * 5.9 * 23.6 inch)	670 * 150 * 960 mm (26.4 * 5.9 * 37.8 inch)	670 * 150 * 1320 mm (26.4 * 5.9 * 60.0 inch)	
Weight (Floor stand toolkit included)	63.8 kg (140.7lb)	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) ²			
Installation	Floor stand (standard), Wall mount (optional)			
Operating temperature	-20°C + 55°C (-4°F 131°F) ³			
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2,000 m)			
Environment	Outdoor / Indoor ⁴ (*Please refer to the user manual for installation conditions)			
Relative humidity	5% 95%			
Cooling	Natural convection			
Protection rating	IP 66			
Noise emission	<29 dB			

Ordering and Deliverable Part

1. Test conditions: 100% depth of discharge (Dot)), 0.2C rate charge & discharge at 25, 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%,
2. The weight of the battery module is subject to the actual product, with a tolerance of +3%
3. Refer to the battery warranty letter for conditional application.
4. 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.
5. Please contact the local engineer for the compatibility between the SUN2000-3/4/5/6/8/10KTL-MO with the LUNA2000.
6. The storage system is ordered and delivered in the form of the power module and battery module separately with corresponding quantity.

Cell technology	Lithium-iron phosphate (LiFePO ₄)
Scalability	Max. 2 systems in parallel operation
Compatible inverters	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M05, 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

FAQs

1. What is the maximum output power of the LUNA2000 series?

The LUNA2000 series has a peak output power ranging from 2.5 kW to 7 kW, depending on the model.


2. Can the battery modules be wall-mounted?

Yes, the battery modules come with an optional wall mount for flexible installation options.

3. What is the operating temperature range of the product?

The product can operate within a temperature range of -20°C to +55°C.

Documents / Resources



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LUNA2000 Smart String Energy Storage System, LUNA2000, Smart String Energy Storage System, String Energy Storage System, Energy Storage System, Storage System, System

References

-  [Huawei FusionSolar Smart PV Solution](#)
- [User Manual](#)

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