Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1

The Huawei LUNA2000-S1 is the next-generation modular residential battery with 5-20.7kWh capacity using LiFePO4 chemistry. Features 9 capacity options via flexible 5kWh and 6.9kWh module combinations, 3.5kW per module power, and IP66 protection.

Models Covered: LUNA2000-5-S1, LUNA2000-7-S1, LUNA2000-10-S1, LUNA2000-12-S1, LUNA2000-14-S1, LUNA2000-15-S1, LUNA2000-17-S1, LUNA2000-19-S1, LUNA2000-21-S1

Manufacturer: Huawei Digital Power Technologies Co., Ltd.

Application: Ideal for United Arab Emirates's climate with wide operating temperature range and dust-resistant design.

BATTERIES | LUNA2000-S1 SMART STRING ENERGY STORAGE | LIFEPO4 CHEMISTRY | 9 CAPACITY OPTIONS (5-20.7KWH) | 3.5KW PER MODULE (10.5KW MAX) | IP66 PROTECTION | < 29DB SILENT OPERATION

Technical Specifications

Parameter	LUNA2000-5-S1	LUNA2000-7-S1	LUNA2000-10-S1	LUNA2000-12-S1	LUNA2000-14-S1	LUNA2000-15-S1	LUNA2 17-S1
Battery System							
Usable Capacity [kWh]	5.0	6.9	10.0	11.9	13.8	15.0	16.9
Battery Modules	LUNA2000-5-E1 (5kWh) / LUNA2000-7-E1 (6.9kWh)						
Operating Voltage (Single-Phase) [V]	350-560						
Operating Voltage (Three-Phase) [V]	600-980						
Cell Technology	LiFePO4						
Power							
Max Charge/Discharge per Module [kW]	3.5						
Max System Power [kW]	3.5	3.5	7.0	7.0	7.0	10.5	10.5
Physical Data							
Dimensions - 5kWh (W×H×D) [mm]	590 × 510 × 255						
Dimensions - 10kWh (W×H×D) [mm]	590 × 870 × 255						
Dimensions - 20.7kWh (W×H×D) [mm]	590 × 1230 × 255						
Weight - 5kWh System [kg]	80						
Weight - 10kWh System [kg]	148						
Weight - 20.7kWh System [kg]	216						

Parameter	LUNA2000-5-S1	LUNA2000-7-S1	LUNA2000-10-S1	LUNA2000-12-S1	LUNA2000-14-S1	LUNA2000-15-S1	LUNA2 17-S1
Battery Module (W×H×D) [mm]	590 × 360 × 255						
Battery Module Weight [kg]	68						
Protection Degree	IP66						
Noise [dB(A)]	< 29						
Operating Temperature	-20 °C ~ +55 °C						
Max Altitude [m]	4000						

Note: Specifications are based on the official Huawei datasheet. Values may be subject to change; always verify against the latest manufacturer documentation.

Key Features

- LiFePO4 Chemistry
- 9 Capacity Options (5-20.7kWh)
- 3.5kW per Module (10.5kW Max)
- IP66 Protection
- < 29dB Silent Operation
- Independent Module-Level Management

Applications & Use Cases

Typical Applications

- Residential solar systems
- Commercial installations
- Industrial solar plants
- Utility-scale projects
- Smart grid integration

Frequently Asked Questions

▼ What are the module options?

The S1 uses two module types: LUNA2000-5-E1 (5kWh) and LUNA2000-7-E1 (6.9kWh). You can flexibly combine them to unlock 9 capacity options from 5kWh to 20.7kWh.

▶ How does the S1 compare to the S0?

▶ What is the warranty coverage for the Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1?

▶ What certifications does the Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1 have?

▶ What model variants are available in the LUNA2000-5/7/10/12/14/15/17/19/21-S1 series?

▶ What are the installation requirements for the Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1?

▶ How does the Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1 perform in hot climates?

▶ What are the dimensions and weight of the Huawei LUNA2000-5/7/10/12/14/15/17/19/21-S1?

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Huawei Digital Power Technologies Co., Ltd.**.

- **Manufacturer Website:** https://solar.huawei.com
- **Technical Support:** sales@huawei-solar.org
- **Sales Inquiries:** sales@huawei-solar.org
- **Data Source:** Official Datasheet - Huawei Digital Power Technologies Co., Ltd.

Disclaimer: *All specifications are based on the official datasheet. Specifications are subject to change without notice. Please verify with the manufacturer for the most current information.*

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