SMART STRING ENERGY STORAGE SYSTEM

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



Flexible Capacity

Flexible combination of 5 kWh with
7 kWh per power podule
Max. 4 groups for an inverter[8]

More Usable Energy

Module+ architecture, built-in energy optimizer
Ultra-long service time
100% Depth of Discharge

5-layer Safety Protection

Cell-level, electrical-level, structural-level,
active protection, emergency protection

Ultimate Use Experience

–20°C to +55°C operating temperature
Max 10.5 kW charging & discharging power per group
Super quiet operation

Easy Installation

Cable free connection between modules
Horizontal adjustment design
Quick commissioning

Aesthetically Pleasing Design

Breathing star ring display
Silky curve design
Simplistic and borderless

Version No.: 01-202509

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



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

Performance									
Power module	LUNA2000-10KW-C1								
Battery module	LUNA2000-5-E1 / LUNA2000-7-E1								
Battery module energy	LUNA2000-5-E1: 5 kWh / LUNA2000-7-E1: 6.9 kWh								
Number of power modules	1								
Number of battery modules	1(5)	1(7)	2(5+5)	2(5+7)	2(7+7)	3(5+5+5)	3(5+5+7)	3(5+7+7)	3(7+7+7)
Battery usable energy [1]	5 kWh	6.9 kWh	10 kWh	11.9 kWh	13.8 kWh	15 kWh	16.9 kWh	18.8 kWh	20.7 kWh
Max. charging & discharging power	3.5 kW		7 kW			10.5 kW			
Operating voltage range (single-phase system)	350–560 V								
Operating voltage range (three phase system)	600–980 V								
Communication									
Display	SOC status indicator, LED indicator								
Communication [2]	RS485 / FE / CAN								
General Specification									
Dimensions (W x D x H)	590 mm x 255 mm x 510 mm		590 mm x 255 mm x 870 mm			590 mm x 255 mm x 1230 mm			
Weight (Floor stand toolkit included)	80 kg		148 kg			216 kg			
Power module dimensions (W x D x H)	590 mm x 255 mm x 150 mm								
Power module weight	10 kg								
Battery module dimensions (W x D x H)	590 mm x 255 mm x 360 mm								
Battery module weight [3]	68 kg								
Installation	Floor stand (standard), Wall mount (optional)								
Operating temperature [4]	–20°C to +55°C (–4°F to +131°F)								
Max. operating altitude [5]	4,000 m (13,123 ft.) (Derated above 2,000 m)								
Environment [6]	Outdoor / Indoor								
Relative humidity	5%–95%								
Cooling	Natural convection								
IP rating	IP66								
Noise emission	< 29 dB [7]								
Cell technology	Lithium-iron phosphate ($LiFePO_4$)								
Scalability [8]	Max.4 systems in parallel operation								
Compatible inverters	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/3.68/4/4.6/5/6K-LB0, SUN2000-8/10K-LC0, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-5/6/8/10/12K-MAP0, SUN2000-12/15/17/20/25K-MB0, SUN5000-3/6K-LB0, SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0								
Standards Compliance (More Available Upon Request)									
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, UN38.3, ISO13849, REACH, RoHS								
Ordering and Deliverable Part									
Available for ordering	LUNA2000-5-E1, LUNA2000-7-E1, LUNA2000-10KW-C1, LUNA2000 S1 Wall Bracket								

*1 Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25℃ , at the beginning of service life.
*2 CAN is for communication between ESSs in parallel scenarios only. The launch time of the FE communication version is to be determined. Please confirm with your local product manager of Huawei for information about the final version.
*3 The weight of the battery modules varies with products, with a tolerance of ±3%.
*4 The output power may be affected by temperature. Please refer to the output derating curve for details.
*5 The output power may be affected by altitude. Please refer to the output derating curve for details.
*6 Outdoor installation is recommended. For indoor installation instructions, please refer to the user manual.
*7 The data is from Huawei lab, and the test condition is 1m distance and typical working voltage.
*8 Only inverter MB0 supports 4 energy storage systems in parallel operation.

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.

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