

SMART BATTERY ENERGY STORAGE

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



Flexible capacity

Flexible combinability of 5 kWh and 7 kWh
on the same power supply module
Max. up to 4 groups per inverter⁸



More usable energy

Module+ architecture,
integrated energy consumption optimiser Very
long service life
100% depth of discharge (DOD)



Five-layer safety protection

Cell protection, electrical and structural Active
and emergency protection



Superior user experience

-20°C to +55°C operating temperature
Max. up to 10.5 kW charging & discharging power in a
group Very quiet operation



Easy installation

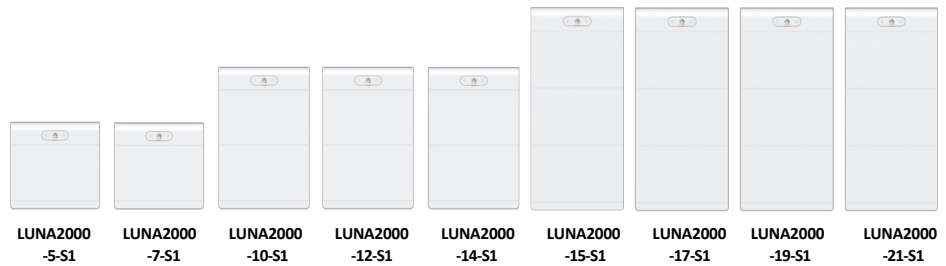
Wireless module connection
Horizontally adjustable design Quick
commissioning



Aesthetic design

Breathing ring effect Elegant
and delicate lines Simple
solution without limits

Technical Specifications



Power									
Power supply module	LUNA2000-10KW-C1								
Battery module	LUNA2000-5-E1 / LUNA2000-7-E1								
Energy of battery modules	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)
Usable battery 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 (3-phase system)	600–980 V								
Communication									
Display	SOC status indicator, LED indicator								
Communication ²	RS485 / FE / CAN								
General specifications									
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 (including floor stand)	80 kg		148 kg			216 kg			
Charging module dimensions (W x D x H)	590 mm x 255 mm x 150 mm								
Charging 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								
Mounting	Floor stand (standard), wall bracket (optional)								
Operating temperature ⁴	–20°C to +55°C								
Max. operating altitude ⁵	4,000 m (power reduction 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. Up to 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, SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0, SUN5000-3/6K-LB0								
Compliance with standards (more upon request)									
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, UN38.3, ISO13849, REACH, RoHS								
Orders and delivered parts									
Available for delivery	LUNA2000-5-E1, LUNA2000-7-E1, LUNA2000-10KW-C1, LUNA2000 S1 wall bracket								

^{*1} Test conditions: 100% depth of discharge (DoD), charging and discharging rate of 0.2C at 25°C at the beginning of the service life.
^{*2} CAN is only for communication between energy storage devices in parallel applications. The launch time of FE communication will be specified, please check with your local Huawei product manager for the final version.
^{*3} The weight of battery modules varies depending on the product with a tolerance of ±3%.
^{*4} Output power may be affected by temperature. Please refer to the power reduction curve for details.
^{*5} Output power may be affected by altitude. For details, refer to the power reduction curve.
^{*6} Outdoor installation is recommended. For indoor installation instructions, please refer to the user manual.
^{*7} Data is from Huawei's laboratory, and the test condition is a distance of 1 m and typical operating voltage.
^{*8} Only SUN2000-12/15/17/20/25K-MB0 supports 4 energy storage systems in parallel operation.

The above values are measured by Huawei's internal laboratory in a specific environment. Actual values may vary depending on products, software versions, usage conditions, and environments.