

LUNA2000 - 200/161/129KWH-2H1

LUNA2000 - 97KWH-1H1

Smart String ESS



More Energy



Simple O&M



Safe & Reliable

Technical Specifications

Model	LUNA2000-200KWH-2H1	LUNA2000-161KWH-2H1	LUNA2000-129KWH-2H1	LUNA2000-97KWH-1H1
Battery configuration	12S1P	10S1P	8S1P	6S1P
Max. capacity	193.5 kWh	161.3 kWh	129.0 kWh	96.8 kWh
Max. charging power			≤ 100 kW	
Max. discharging power	≤ 100 kW	≤ 100 kW	≤ 100 kW	≤ 92 kW
Dimensions (W x H x D)		1810 mm x 2135 mm x 1200 mm		
Dimensions (W x H x D, including Smart Rack Controller and Smart PCS)		2570 mm x 2135 mm x 1200 mm		
Weight (with battery packs)	≤ 2950 kg	≤ 2690 kg	≤ 2430 kg	≤ 2170 kg
Weight (without battery packs)	≤ 1070 kg	≤ 1070 kg	≤ 1090 kg	≤ 1130 kg
Operating temperature range		-30°C to +55°C		
Storage temperature range		-40°C to +60°C		
Operating humidity range		0-100% (non-condensing)		
Max. operating altitude		4000 m		
Installation environment		Outdoor installation		
Temperature control mode		Industrial-grade air conditioner		
Fire suppression		Supported		
Auxiliary power supply		220 V AC, ≤ 4.2 kW		
Communication port		Ethernet / SFP		
Communication protocol		Modbus TCP		
IP rating		IP55		
EMC rating		Class A		
DC surge protection		Type II		

Compliant Standards

RoHS

GB/T 36276-2018; GB/T 33582; UL 9540A; UN 38.3; ISO 9227:2017; IEC 60529; IEC/EN 62477-1; IEC/EN 62040-1; IEC/EN 61000-6-2; IEC/EN 61000-6-4; EN 55011

Typical System Configurations



Energy (kWh, up to 3870 kWh)	Recommended Combinations				
	100 kW	200 kW	300 kW	400 kW	500 kW
967.5					12 * 5p
935.3					12 * 4p + 10
903.0					12 * 4p + 8
870.8					12 * 4p + 6
838.5					12 * 3p + 8 * 2p
806.3					12 * 3p + 8 + 6
774.0				12 * 4p	
741.8				12 * 3p + 10	
709.5				12 * 3p + 8	
677.3				12 * 3p + 6	
645.0				12 * 2p + 8 * 2p	
612.8				12 * 2p + 8 + 6	
580.5			12 * 3p		
548.3			12 * 2p + 10		
516.0			12 * 2p + 8		
483.8			12 * 2p + 6		
451.5			12 + 8 * 2p		
419.3			12 + 8 + 6		
387.0		12 * 2p			
354.8		12 + 10			
322.5		12 + 8			
290.3		12 + 6			
258.0		8 * 2p			
225.8		8 + 6			
193.5	12				
161.3	10				
129.0	8				
96.8	6				
Power (up to 2000 kW)	100 kW	200 kW	300 kW	400 kW	500 kW
ESS quantity (up to 20x)	1x	2x	3x	4x	5x

Note

- All four models can be used together. A maximum of 20 ESSs can be connected in parallel. This table only applies to scenarios where up to 5 ESSs are connected in parallel.
- When different models are connected in parallel, each ESS is charged and discharged according to its respective actual C rate.
- The numbers 6, 8, 10, and 12 refer to the quantity of battery packs the models contain, that is, LUNA2000-97KWH-1H1, LUNA2000-129KWH-2H1, LUAN2000-161KWH-2H1, LUNA2000-200KWH-2H1.
- Currently, LUNA2000-161/129KWH-2H1 and LUNA2000-97KWH-1H1 are not available in the Chinese Mainland and Japan.