

# LUNA2000 - 200/161/129KWH-2H1

## LUNA2000 - 97KWH-1H1

### Smart String ESS



More Energy



Simple O&M



Safe & Reliable

#### Energy Storage System Parameters

Model Type	LUNA2000-200KWH-2H1	LUNA2000-161KWH-2H1	LUNA2000-129KWH-2H1	LUNA2000 - 97KWH-1H1
Battery Configuration	12S1P	10S1P	8S1P	6S1P
Maximum battery capacity of the energy storage system	193.5kWh	161.3kWh	129.0kWh	96.8kWh
Max. Charging Power	≤100 kW			
Max. Discharging Power	≤100 kW	≤100 kW	≤100 kW	≤92 kW
Dimensions (W x H x D), including Smart Rack Controller and Smart PCS	1810mm×2135mm×1200mm			
Dimensions (W x H x D)	2570mm x 2135mm x 1200mm			
Weight (including the battery module)	≤2950kg	≤2690kg	≤2430kg	≤2170kg
Weight (without the battery module)	≤1070kg	≤1070kg	≤1090kg	≤1130kg
Operating temperature range	-30 °C ~ 55 °C			
Storage temperature range	-40 °C ~ 60 °C			
Operating humidity range	0 ~ 100% (non-condensing)			
Maximum operating altitude	4,000 m			
Installation Environment Requirement	Outdoor installation			
Battery temperature control mode	Industrial-grade air conditioner			
Fire suppression of energy storage system	YES			
Auxiliary Power Supply	220Vac, ≤4.2kW			
Communication port	Ethernet / SFP			
Communication protocol	Modbus TCP			
Protection degree	IP55			
EMC Protection Rating	ClassA			
DC Lightning Protection	Type II			

#### Standards

Environment	RoHS6
Certification Standards	GBT 36276-2018; IEC62619; UL9540A;UN38.3;

# Battery Pack & Smart Rack Controller

## Smart String ESS



Battery Pack		
General		
Model Type	LUNA2000-200KWH-2H1	LUNA2000 - 161/129KWH-2H1 LUNA2000 - 97KWH-1H1
Cell Material	LFP	
Nominal Capacity	16.13 kWh	
Supported Charge & Discharge Rate	≤0.5C	≤1C
Weight	≤ 140 kg	
Dimensions (W x H x D)	442 x 308 x 660 mm	



Smart Rack Controller	
Efficiency	
Max. Efficiency	≥ 98.5%
Battery Side	
Rated Voltage	691.2 V
Operating Voltage Range	40 V ~ 1,050 V
Min. Start Voltage	350 V
Bus Side	
Max. DC Voltage	1,100 V
Rated Voltage	665 V
Rated Current	76.3 A
General	
Dimensions (W x H x D)	600 x 820 x 270 mm
Weight	≤ 90 kg
Cooling Method	Smart Air Cooling
Protection Degree	IP66