

# Model: LUNA2000-5015 Series (Preliminary)

## Smart String ESS



**All-architecture  
Safety**



**All-scenario  
Grid forming**



**All-lifecycle  
Cost-effectiveness**



**All-rounder  
Digitalization**

Battery Container		
Model	LUNA2000-5015-8S	LUNA2000-5015-2S
DC Rated Voltage		1,331.2 V
DC Max. Voltage		1,500 V
Nominal Energy Capacity		5,015 kWh
Charge & Discharge Rate	≤ 0.125 C	≤ 0.5 C
Rated Power	626 kW	2,507 kW
Dimension (W x H x D)	6,058 x 2,896 x 2,438 mm	
Weight	≤ 43 t	
Operation Temperature Range	-30° C ~ 55° C	
Storage Temperature Range	-35° C ~ 60° C (With Coolant) -40° C ~ 60° C (Without Coolant)	
Relative Humidity	0 ~ 100% (Non-condensing)	
Max. Operating Altitude	4,700 m	
Cooling Method	Liquid Cooling	
Fire Suppression System	Water Sprinkler, NOVEC 1230	
Communication Interface	Ethernet / SFP	
Communication Protocol	Modbus TCP	
Protection Degree	IP55	
Anti-corrosion Degree	C5-Medium	

### Standards Compliance

RoHS, IEC62477-1, IEC62040-1, IEC61000-6-2, IEC62933-5-2, UL9540A, IEC62619, UN38.3, etc.

Battery Pack	
Cell Material	LFP
Number of Cell	104
Nominal Capacity	314 Ah / 104.5 kWh
Protection Degree	IP65
Weight	≤ 710 kg
Dimensions (W x H x D)	785 x 249 x 2135 mm

# Model: LUNA2000-2236-1S (Preliminary)

## Smart String ESS



**All-architecture  
Safety**



**All-scenario  
Grid forming**



**All-lifecycle  
Cost-effectiveness**



**All-rounder  
Digitalization**

### Battery Container

Model	LUNA2000-2236-1S
DC Rated Voltage	1,331.2 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	2,236 kWh
Charge & Discharge Rate	≤ 1 C
Rated Power	2,236 kW
Dimension (W x H x D)	6,058 x 2,896 x 2,438 mm
Weight	≤ 30 t
Operation Temperature Range	-30° C ~ 55° C
Storage Temperature Range	-35° C ~ 60° C (With Coolant) -40° C ~ 60° C (Without Coolant)
Relative Humidity	0 ~ 100% (Non-condensing)
Max. Operating Altitude	4,700 m
Cooling Method	Liquid Cooling
Fire Suppression System	Water Sprinkler, NOVEC 1230
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP
Protection Degree	IP55
Anti-corrosion Degree	C5-Medium

### Standards Compliance

RoHS, IEC62477-1, IEC62040-1, IEC61000-6-2, IEC62933-5-2, UL9540A, IEC62619, UN38.3, etc.

### Battery Pack

Cell Material	LFP
Number of Cell	52
Nominal Capacity	280 Ah / 46.6 kWh
Protection Degree	IP65
Weight	≤ 410 kg
Dimensions (W x H x D)	785 x 249 x 2135 mm

# Model: LUNA2000-213KTL-H0

## Smart PCS



**Max. Efficiency 99%**



**Modular Design**



**IP66 Protection**



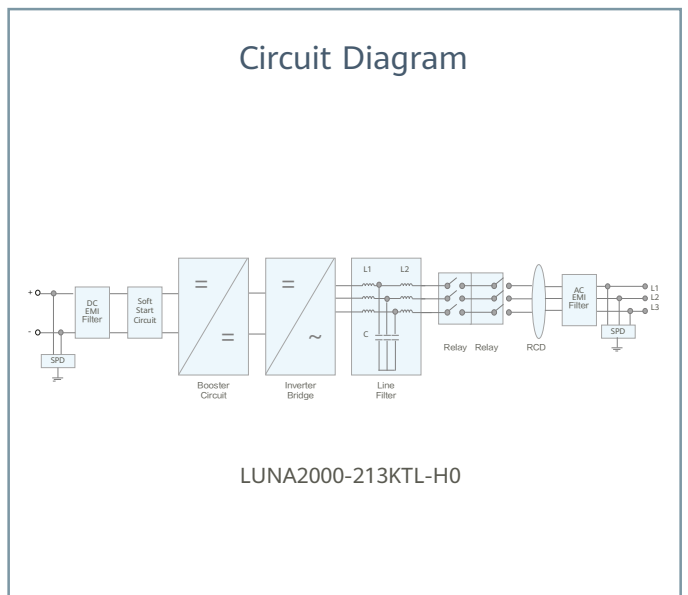
**Built-in Intelligent Active Breaking Device**



**Dual-stage Architecture**



**Smart Grid Forming Algorithm**



Model: LUNA2000-213KTL-H0  
**Technical Specifications**

Efficiency	
Max. Efficiency	99.01%
DC Side	
Rated DC Voltage	1,331 V
Max. DC Voltage	1,500 V
Operating DC Voltage Range	800 V ~ 1,500 V
Rated Power Operating Voltage Range	1100V-1500V
Max. DC Current	218.5 A
Max. Number of Inputs	1
AC Side	
Rated AC Active Power	213,000 W @40°C; 192,000 W @50°C
Max. Apparent Power	236,400 VA
Rated AC Voltage	800 V
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC Current	170.6 A
Adjustable Power Factor Range	-1 ... +1
Max. Total Harmonic Distortion	THD <sub>i</sub> ≤ 1.5% (Rated)
Protection	
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
Communication Protocol	Ethernet, CAN
General	
Dimension (W x H x D)	875 x 865 x 365 mm
Weight	≤ 110 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,700 m
Relative Humidity	0 ~ 100% (Non-condensing)
DC Connector	OT / DT Terminal
AC Connector	OT / DT Terminal
Protection Degree	IP66
Anti-corrosion Degree	C5-Medium
Topology	Transformerless
Standards Compliance	
GB/T 34120, GB/T 34133, IEC/EN62477-1, etc.	