

LUNA2000-4.5MWH-2H1

Smart String ESS Technical Specifications (Preliminary)

Battery Container	
Model	LUNA2000-4.5MWH-2H1
DC Rated Voltage	1,331.2 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	4,472 kWh
Charge & Discharge Rate	≤ 0.5 C
Rated Power	2,236 kW
Dimension (W x H x D)	6,058 x 2,896 x 2,438 mm
Weight	≤ 41 t
Operation Temperature Range	-30° C ~ 55° C
Storage Temperature Range	-40° C ~ 60° C
Relative Humidity	0 ~ 100% (Non-condensing)
Max. Operating Altitude	4,000 m
Cooling Method	Liquid Cooling
Fire Suppression System	Water Sprinkler, Novec 1230 (Optional)
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	280 Ah / 93.18 kWh
Protection Degree	IP65

