

FusionSolar

Utility Smart String ESS Solution

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About Huawei

Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. With integrated solutions across four key domains – telecom networks, IT, smart devices, and cloud services – we are committed to bringing digital to every person, home and organization for a fully connected, intelligent world. Huawei's end-to-end portfolio of products, solutions and services are both competitive and secure. Through open collaboration with ecosystem partners, we create lasting value for our customers, working to empower people, enrich home life, and inspire innovation in organizations of all shapes and sizes. At Huawei, innovation focuses on customer needs. We invest heavily in basic research, concentrating on technological breakthroughs that drive the world forward.



Employees

194,000+



Interbrand's Top 100
Best Global Brands

74



160GW+

Accumulated global shipment
by the end of 2020



R&D Personnel

96,000+



Fortune Global 500

49



Countries

170+



Research institutes
/labs/centers

14

LUNA2000-2.0MWH-1H0/2H0

Smart String ESS



More Energy

Pack-level optimization, rack-level optimization, Increase lifespan discharging energy



Optimal Design

Battery augmentation reduces initial capacity



Simple O&M

No periodic capacity calibration
Saving O&M costs



Safe & Reliable

Modular Design
High availability

Battery Pack		
Cell Material	LFP 3.2V / 280 Ah	LFP 3.2V / 320 Ah
Pack Configuration	18S 1P	16S 1P
Rated Voltage	57.6 V	51.2 V
Rated Capacity	16.13 kWh	16.38 kWh
Supported Charge & Discharge Rate	≤ 1 C	
Battery Rack		
Rack Configuration	378S 1P	336S 1P
Rated Voltage	1,209.6 V	1,075.2 V
Operation Voltage Range	1,021 V ~ 1,380 V	907 V ~ 1,226 V
Rated Capacity	338.7 kWh	344.1 kWh
Rated Output Power of Smart String Controller	366 kW@1C, 183 kW@0.5C	
Supported Charge & Discharge Rate	≤ 1 C	
Battery Container		
Container Configuration	378S 6P	336S 6P
DC Rated Voltage	1,200 V	
DC Max. Voltage	1,500 V	
Rated Capacity	2,032 kWh	2,064 kWh
Container Configuration (W x H x D)	6,058 x 2,896 x 2,438 mm	
Container Weight	≤ 30 t	
Operation Temperature Range	-30 °C ~ 55 °C	
Storage Temperature Range	-40 °C ~ 60 °C	
Operation Humidity Range	0 ~ 100% (Without Condensation)	
Max. Operating Altitude without Derating	4,000 m	
Cooling Method	Smart Air Cooling	
Fire Extinguishing	FM-200	
Communication Interface	Ethernet	
Communication Protocol	Modbus RTU / Modbus TCP	
Protection	IP55	
Certificates (more available upon request)		
Environment	RoHS6	
Safety & Electrical	IEC62619, IEC62109, IEC62933, UN38.3, etc.	

LUNA2000-200KTL-H0

Smart PCS



Max. Efficiency 99%



Modular Design



IP66 Protection

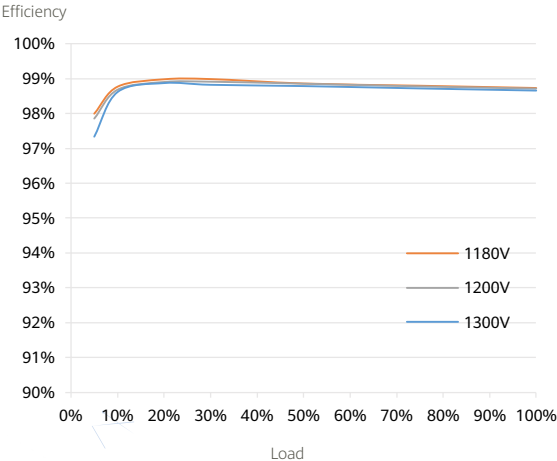


Surge Arresters for
DC & AC

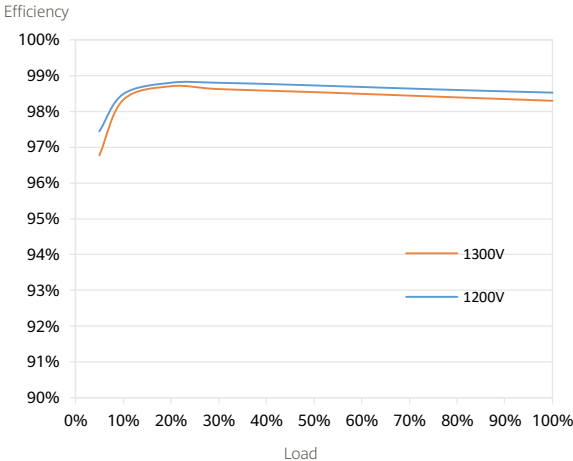


Ethernet
Communication

Discharge Efficiency Curve



Discharge Efficiency Curve



LUNA2000-200KTL-H0

Technical Specifications

Efficiency	
Max. Efficiency	99%
Input	
Max. Input Voltage	1,500 V
Max. Input Current	204 A
Max. number of inputs	1
Operating input voltage range	1,180 V ~ 1,500 V
Rated Input Voltage	1,200 V
Output	
Rated AC Active Power	200,000 W @40 °C
Max. AC Apparent Output Power	220,000 VA
Max. AC Active Power (cosφ=1)	220,000 W
Rated Output Voltage	800 V, 3W + PE
Operating AC voltage range	800 V, ±10%
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	173.2 A
Adjustable Power Factor Range	-1 ... +1
Max. Total Harmonic Distortion	< 3%
Protection	
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
Residual Current Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
RS485	Yes
Ethernet	Yes
General	
Dimensions (W x H x D)	875 x 850 x 365 mm
Weight (with mounting plate)	< 90 kg
Operating Temperature Range	-25 °C ~ 60 °C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Waterproof Connector + OT/DT Terminal
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

1: Compatible Type II protection class according to IEC / EN 61643-11

DCBOX-9/5-H0

DC LV Panel





Electrical	
Max. Input Voltage	1,500 V
Nominal Input Voltage	1,200 V
Max. Branch Current for Battery Rack	320 A
Max. Branch Current for PCS	195 A
Number of DC Circuit Breaker	14
Max. Input Number of PCS	5
Max. Input Number of Battery Rack	9
Protection	
Overvoltage Protection	Yes
Overcurrent Protection	Yes
Reverse Current Protection	Yes
Environment	
Operating Temperature Range	-30°C ~ 60°C
Relative Humidity	0% ~ 100%
Max. Operating Altitude	4,000 m
General	
Cable Entries	Top in for PCS & Bottom in for Battery Rack
Dimensions (W x D x H)	2,000 x 1,300 x 900 mm
Weight	500 kg
DC Connector / AC Connector	OT Terminal
Protection Degree	IP55
Installation Options	Grounding



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