



HUAWEI

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

197,000+



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



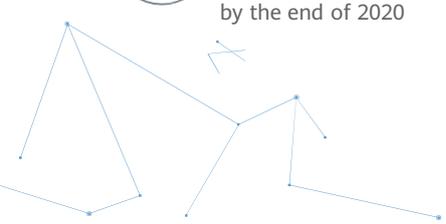
Countries

170+

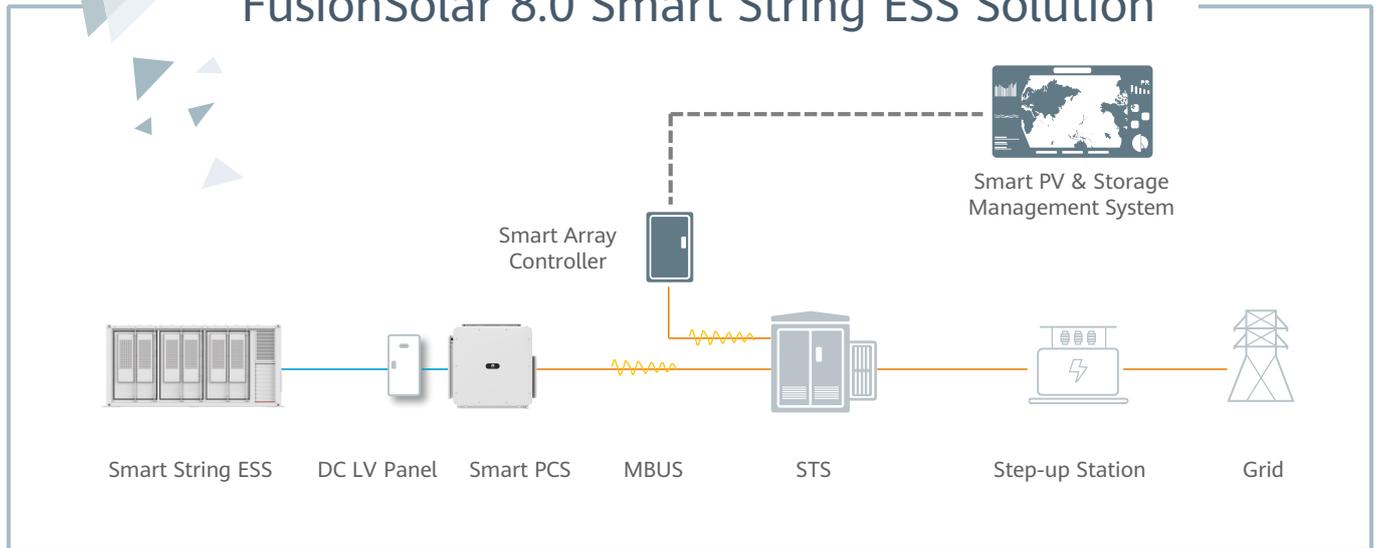


Research institutes
/labs/centers

14



FusionSolar 8.0 Smart String ESS Solution



More Energy

Pack-level Optimization
Rack-level Optimization

Optimal Design

Support battery augmentation
Reducing Initial configuration

Simple O&M

No periodic balancing
No experts site visit

Safe & Reliable

Modular Design
High Availability



LUNA2000-2.0MWH-1H0/2H0

Smart String ESS



More Energy



Optimal Design



Simple O&M



Safe & Reliable

Battery Container	
DC Rated Voltage	1,200 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	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 ~ 40°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 / SFP
Communication Protocol	Modbus TCP
Protection Degree	IP55
Certificates (more available upon request)	
Environment	RoHS6
Safety & Electrical	IEC62619, IEC62109, IEC62933, UN3536, etc.

Smart String ESS Battery Pack & Smart Rack Controller



Battery Pack	
General	
Cell Material	LFP
Pack Configuration	16S 1P
Rated Voltage	51.2 V
Nominal Capacity	320 Ah / 16.38 kWh
Supported Charge & Discharge Rate	≤ 1 C
Weight	≤ 140 kg
Dimensions (W x H x D)	442 x 308 x 660 mm
Operating Voltage Range	43.2 V ~ 56.4 V



Smart Rack Controller	
Efficiency	
Max. Efficiency	99.0%
Battery Side	
Rated Voltage	1,209.6 V
Rated Current	140 A
Operating Input Voltage Range	50 V ~ 1,400 V
Full-load Voltage Range	980 V ~ 1,325 V
Bus Side	
Max. DC Voltage	1,500 V
Rated Voltage	1,200 V
Rated Current	125 A
Rated Power	340,000 W
General	
Dimensions (W x H x D)	600 x 270 x 820 mm
Weight	≤ 90 kg
Cooling Method	Smart Air Cooling
Protection Degree	IP66



LUNA2000-200KTL-H0 Smart PCS



Max. Efficiency 99%



Modular Design



IP66 Protection



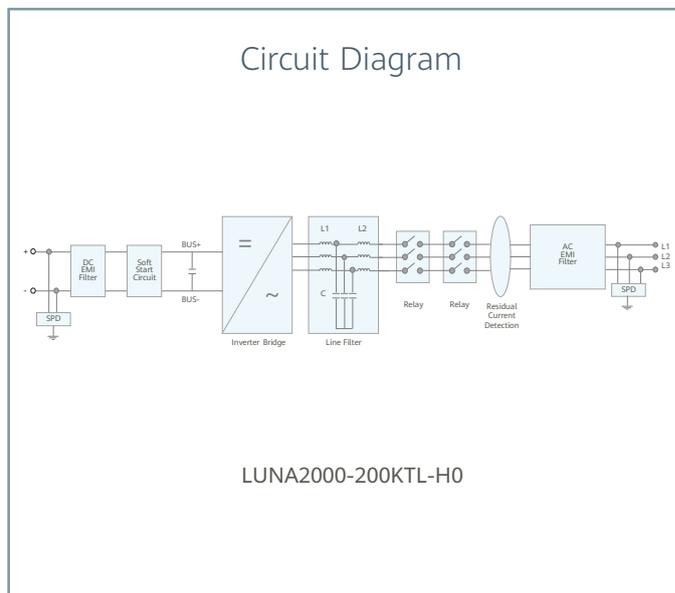
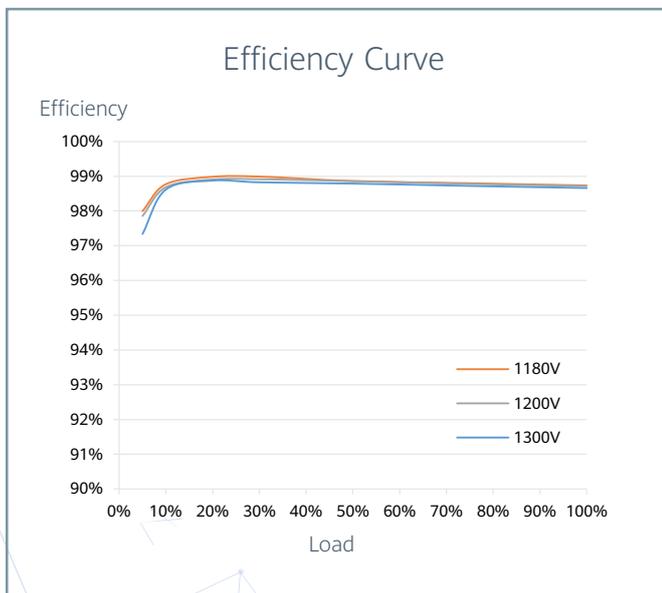
Surge Arresters for
DC & AC



Ethernet
Communication



Smart Grid
Algorithm



LUNA2000-200KTL-H0

Technical Specifications

Efficiency	
Max. Efficiency	99.0%
European Efficiency	98.8%
DC Side	
Rated DC Voltage	1,200 V
Max. DC Voltage	1,500 V
Operating DC Voltage Range	1,180 V ~ 1,500 V
Max. DC Current	207.6 A
Max. Number of Inputs	1
AC Side	
Rated AC Active Power	200,000 W @40°C
Max. AC Apparent Output Power	240,000 VA
Max. AC Active Power (cosφ=1)	240,000 W
Rated AC Voltage	800 V
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC 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
Insulation Resistance Detection	Yes
Earth Fault Protection	Yes
Residual Current Protection	Yes
DC Surge Protection ¹	Type II
AC Surge Protection ¹	Type II
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
RS485	Yes
Ethernet	Yes
General	
Dimensions (W x H x D)	875 x 820 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
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 Side	321 A
Max. Branch Current for PCS Side	193 A
Number of DC Circuit Breaker	14
Max. Input Number of Battery Rack	9
Max. Input Number of PCS	5
Max. Convergence Capacity	5 x 193 A
Protection	
DC Surge Protection	Optional
DC Overcurrent 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 H x D)	2,040 x 1,415 x 965 mm
Weight (Without Smart PCS)	≤ 600 kg
DC Connector / AC Connector	OT Terminal
Protection Degree	IP55
Installation Options	Grounding





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