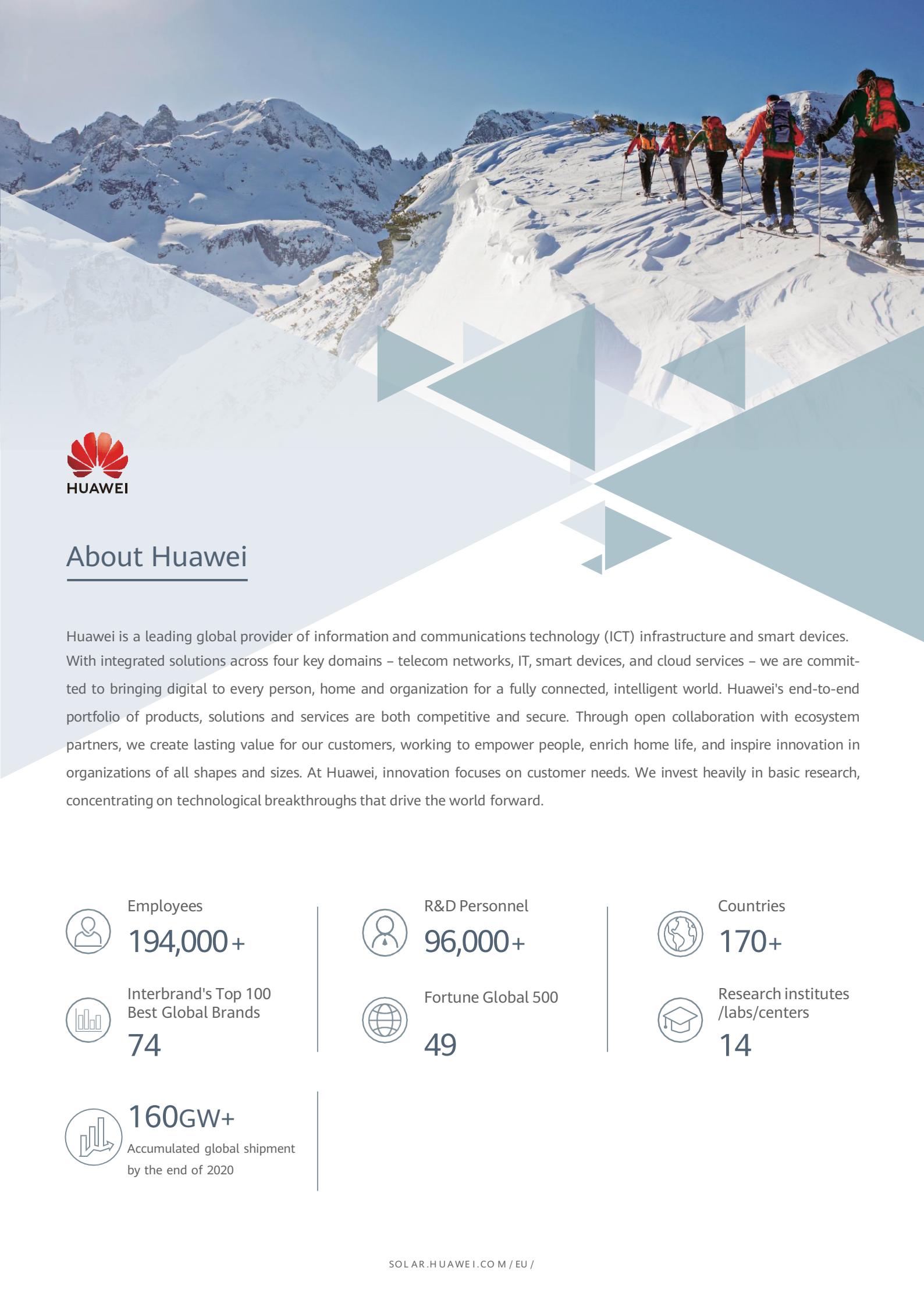


# FusionSolar Utility Smart String ESS Solution



## About Huawei

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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

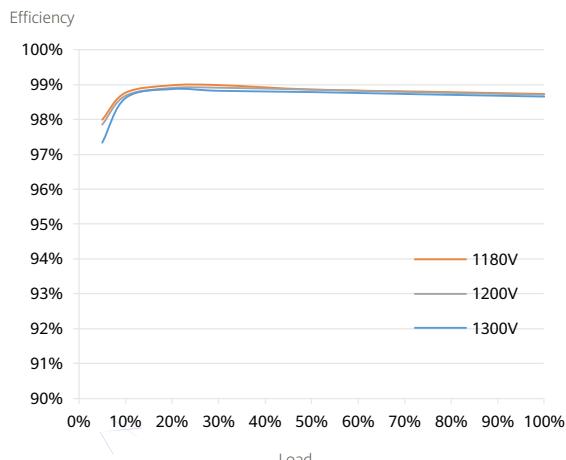


Surge Arresters for  
DC & AC

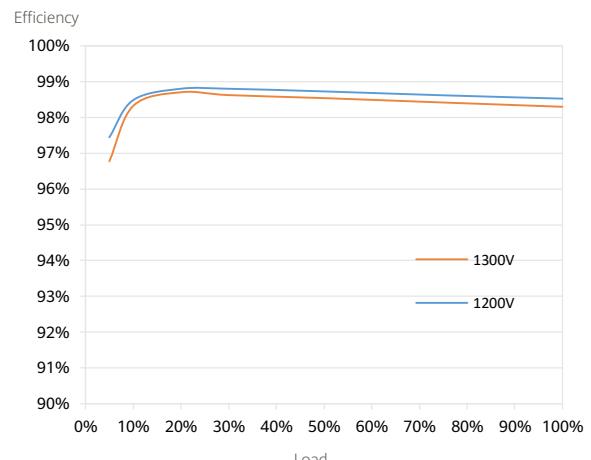


Ethernet  
Communication

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 ( $\cos\phi=1$ )	220,000 W
Rated Output Voltage	800 V, 3W + PE
Operating AC voltage range	800 V, $\pm 10\%$
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 (Wx 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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