



Home energy storage solutions

Product catalog →

Installation manual →



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Core with Li just you and me

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2 Rack-Mounted51.2V200AH

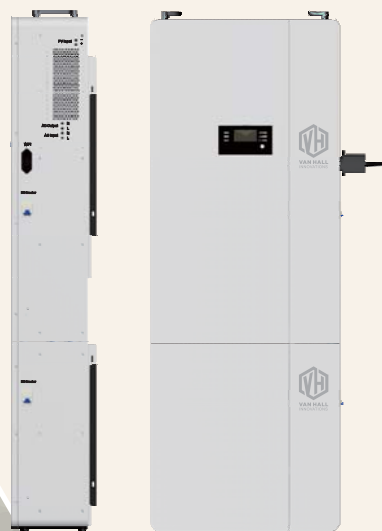
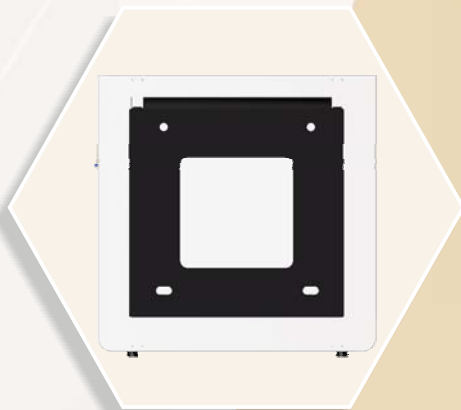
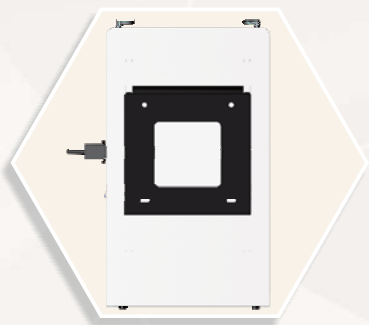
3 ESS 10kWh(1P)

4 ESS 20kWh(2P)

5 ESS 100kWh(10P)



ESS 20kWh(2P)

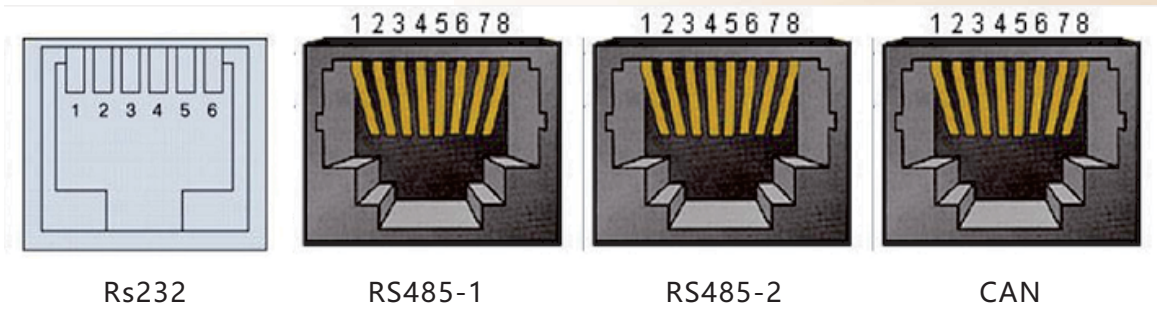


Specifications

Item	Specification description	
DATASHEET	Battery Voltage	48VDC
	Battery Type	LiFePO4
INVERTER OUTPUT	Rated Power	5000VA/ 5000W
	Parallel Capability	Yes, 15 units maximum
	AC Voltage Regulation(Battery Mode)	230VAC $\pm$ 5 % @ 50/60Hz
	Surge Power	10000VA
	Efficiency (Peak)	93%
	Waveform	Pure sine wave
	Transfer Time	10ms typical, 20ms Max
SOLAR CHARGER	Maximum PV Array Power	5000W
	MPPT Range @ Operating Voltage	120VDC ~ 450VDC
	Number of Independent MPP Trackers/Strings Per MPP Tracker	1/1
	Maximum PV Array Open Circuit Voltage	500VDC
	Maximum Solar Charge Current	80A
AC CHARGER	Charge Current	60A
	AC Input Voltage	230 VAC
	Selectable Voltage Range	90-280 VAC (For Home Appliances)
	Frequency Range	50Hz/60Hz (Auto sensing)
PHYSICAL	Protection Degree	Ip20
	Dimension (W x D x H)	(860+500)*500*200 (224) mm
	Net Weight	150kgs
OPERATING ENVIRONMENT	Humidity	5% to 95% Relative Humidity
	Altitude	<2000m
	Operating Temperature	0°C - 55°C
	Storage Temperature	-15°C - 60°C
Battery Technical Specification		
Module Model	VH5000HL	
Battery Chemistry	LFP (LiFePO4)	
Module Capacity	ESS 10kWh(1P)/ESS 20kWh(2P)	
Module Nominal Voltage	51.2V	
Max. Modules in Parallel	15	
Max. Charging/Discharging Current	100A	
Number of parallels	1 (10kwh)	2 (20kwh)
Dimension (W x D x H)	860*500*220 (224) mm	1360*500*220 (224) mm
Cycle Life	6000+	
Safety	IEC62619	

Voltage/V	Current t/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1.0C
	Time/h										
48.0		9.465	4.852	3.250	2.418	1.924	1.588	1.355	1.179	1.039	0.939
46.4		9.912	4.942	3.302	2.452	1.960	1.617	1.386	1.199	1.070	0.959
44.8		9.960	4.992	3.341	2.493	1.988	1.638	1.396	1.219	1.079	0.969
43.2		10.099	5.039	3.355	2.507	2.000	1.658	1.405	1.229	1.089	0.979

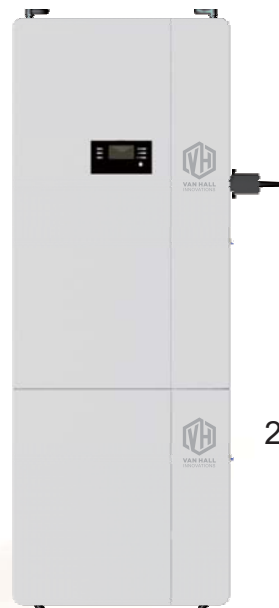
Network interface definition



Interface	Definition
RJ45-1	PIN4: CANH
	PIN5: CANL
	PIN1、 2、 3、 6、 7、 8: NC
RJ45-2/RJ45-3	PIN2、 7: 485-A
	PIN1、 8: 485-B
	PIN6: 485-2A
	PIN5: 485-2B
	PIN3、 PIN4: NC

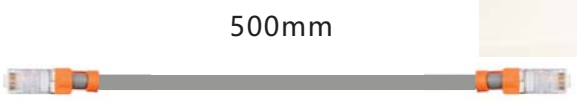


10kWh

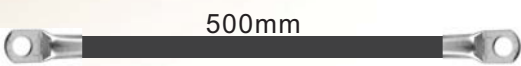


20kWh

COMMUNICATION CABLE



POWER CABLES



Network interface definition

