H&S RELIANCE GROUP LTD

Haier Energy VESTWOODS

H&S SOLAR SOLUTIONS

2026 PRODUCTCATALOG

H&S RELIANCE GROUP LTD

H&S Solar Solutions: Dealers In

Haier Energy VESTWOODS

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CONTENTS

YOUR ENERGY PARTNER
FOR A SUSTAINABLE FUTURE

ABOUT VESTWOODS

OVERVIEW

Vestwoods is a technology-driven enterprise dedicated to delivering innovative green energy solutions and services to a global clientele. Anchored in advanced research and development of lithium-ion battery system integration, Vestwoods stands at the forefront of sustainable energy innovation. A company under Haier Energy, Vestwoods serves as a strategic platform in the new energy industry.

COMPANY VISION

Benefit mankind with green science and technology.

COMPANY MISSION

Provide competitive lithium products and technical solutions to global users.

50+	80+	60%	120+	25,000㎡	5GWh
Countries and Areas	Global Customers	R&D as a Percentage	Patents	Production area	Annual Capacity

DEVELOPMENT HISTORY

2024 Secured a strategic investment from Haier Energy, marking a significant milestone in our journey of growth and development.

2023 Achieved over 100% year-on-year sales growth, demonstrating strong market performance and expansion.

2022 Began providing advanced backup solutions for data centers, enhancing reliability and efficiency.

2021 Began providing advanced backup solutions for data centers, enhancing reliability and efficiency.

2020 Began providing advanced backup solutions for data centers, enhancing reliability and efficiency.

2019 Established a dedicated R&D center focused on developing UPS and EES solutions, driving innovation in power systems.

2018 Launched a state-of-the-art production facility in Hangzhou and introduced Telecom backup solutions to the Indian market.

2017 Opened our Hong Kong office and commenced exploration of overseas expansion opportunities.

2016 Founded in Hangzhou, laying the foundation for a visionary future in power solutions.

GLOBALIZATION

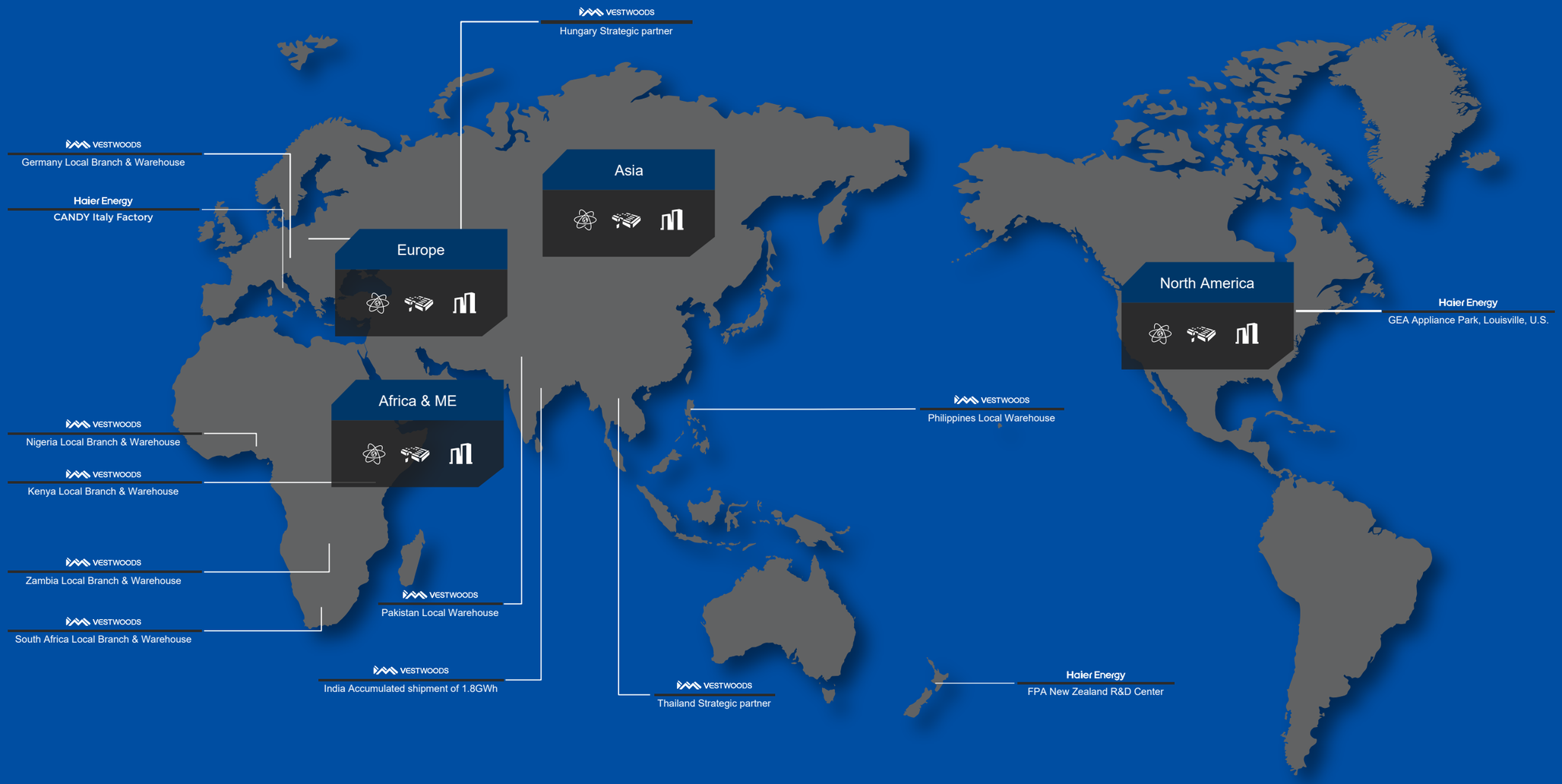
- **Building a globalized multi-level and multi-mode industrial ecosystem**

Adhering to the concept of “user-centered” to provide customized, scenario-based, intelligent new energy solutions for global users.

R&D Center

Local Warehouse

Branches



COMMERCIAL AND INDUSTRIAL ESS SOLUTIONS

FLEXIBLE AND SCALABLE TO MEET YOUR NEEDS

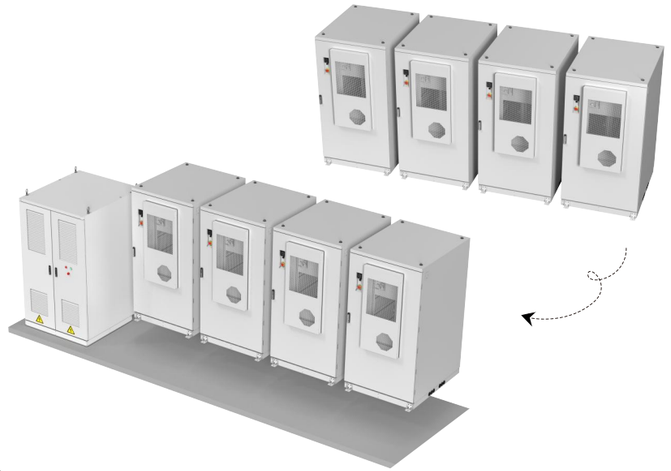
261kWh Battery Cabinet

Fire Suppression System(FSS)

Intelligent Monitoring System(IMS)

Battery Management System(BMS)

4 battery cabinets with a capacity of 1044KWh



500KW Power Conversion System (PCS)

Supports both indoor and outdoor environments Built-in STS

Energy Management System (EMS) monitoring platform, statistical data, etc

Flexible expansion to 1MW/2MWh

Turnkey Energy Storage Solutions

POWERHELP LIGHT

VEC20K-48kWh

Basic	
Hybrid Inverter	20kW
BESS	48kWh

POWERHELP BASIC

VEB 50k-200kWh

Basic	
Hybrid Inverter	50/125kW
BESS	160/200/220/261kWh

POWERHELP PRO

VEB 500k-1044kWh

Basic	
PCS	250/500kW
BESS	522/1044kWh

POWERHELP MAX

VES-3134/5025kWh-L

Basic	
BESS	3134/5015kWh

POWERHELP
LIGHT SERIES

314Ah
LFP Battery

≥6000
Cycles

Large
capacity

Low Voltage
C&I System

Model	VEC20K-48kWh
AC Parameters	
Max. DC Input Power	20kW
MPPT Range	150-950V
Rated DC Input Voltage	720V
No. of MPP Trackers	4
Rated Output Power	22kW
Max. Output Apparent Power	22kVA
Max. Charge/Discharge Current	350/350A
Output Frequency and Voltage	50/60Hz, 380V/400V, 266V-480V, 3L/N/PE
Max. Efficiency	98.5%
Dimensions (W*H*D)	539*696*232mm
System Parameters	
Battery Type	LFP
Nominal Battery Voltage	51.2V
Nominal Battery Energy	48kWh
Operating Voltage Range	42.0~57.6V
Charging Temp. Range	0˚C~55˚C
Discharging Temp. Range	-20˚C~55˚C
IP Rating	IP21
Expansion	Max. 10 Units in parallel
Communication	CAN
Design Standard	UN38.3, CE-EMC, Rohs
Battery Module Weight	Approx. 114*3kg
Battery Module	
Battery Type	LFP
Cell Capacity	314Ah
Communication	CAN
Module Capacity	16.07kWh
Rated Charge/Discharge Current	160A
Rated Voltage	48V
Dimension(W*H*D)	500*880*240mm
Weight	Approx. 114kg

POWERHELP
BASIC SERIES

LFP Battery

≥6000 Cycles

0.5P Charge Discharge

Expand 1MW/2MWh

Model	VEC 50K-160kWh-F	VEC 50K-200kWh-F	VEC 50K-221kWh-F
AC Parameters			
Max. DC Input Power	96kW		
MPPT Range	150-850V		
Rated DC Input Voltage	600V		
No. of MPP Trackers	4		
Rated output power	50kW		
Max. output apparent power	50kVA		
Output Frequency and Voltage	50/60Hz; 3/N/PE, 220V/380V, 230V/400V		
Max. Efficiency	97.60%		
Dimensions (W*H*D)	530*880*290mm		
System Parameters			
Battery Type	LFP		
Nominal Battery Voltage	512V	640V	704V
Nominal Battery Energy	160kWh	200kWh	221kWh
Operating Voltage Range	448-576V	560~720V	616V-792V
Recommend Charging Current	160A		
Recommend Discharging Current	180A		
Charging Temp. Range	0°C~55°C		
Discharging Temp. Range	-20°C~55°C		
Anti-corrosion Level	C3(C4/C5 optional)		
IP Rating	IP54		
Expansion	Max. 10 Cabinets in parallel		
Communication	RS485, CAN, Ethernet		
Compatible Inverters	Solis, Deye, SAJ, Megareva etc.		
Standard	UN38.3/CE-EMC/IEC62619/IEC 62477/IEC 63056		
Firefighting	Airosol, Perfluoro(optional)		
Dimension(W*H*D)	1200*2300*1450mm		
Weight	Approx. 2170kg	Approx. 2620kg	Approx. 2914kg

POWERHELP
BASIC SERIES

LFP Battery

≥6000 Cycles

0.5P Charge Discharge

Expand 1MW/2MWh

Model	VEC-125K-261kWh-F
AC Parameters	
Max. DC Input Power	240kW
MPPT Range	150-950V
Rated DC Input Voltage	600V
No. of MPP Trackers	10
Rated Output Power	125kW
Max. Output Apparent Power	125kVA
Output Frequency and Voltage	50/60Hz; 3/N/PE, 220V/380V, 3/N/PE, 230V/400V
Max. Efficiency	97.60%
Dimensions (W*H*D)	1174*814*400mm
System Parameters	
Battery Type	LFP
Nominal Battery Voltage	832V
Nominal Battery Energy	261kWh
Operating Voltage Range	728-936V
Recommend Charging Current	160A
Recommend Discharging Current	180A
Charging Temp. Range	0°C~55°C
Discharging Temp. Range	-20°C~55°C
Anti-corrosion Level	C3(C4/C5 optional)
IP Rating	IP54
Expansion	Max. 10 Cabinets in parallel
Communication	RS485, CAN, Ethernet
Compatible Inverters	Solis, Deye, SAJ, Megareva etc.
Design Certification	UN38.3/CE-EMC/IEC62619/IEC 62477/IEC 63056
Firefighting	Airosol, Perfluoro(optional)
Dimension(W*H*D)	1200*2300*1450mm
Weight	Approx. 3061kg

POWERHELP
BASIC SERIES

LFP Battery

≥6000 Cycles

0.5P Charge Discharge

Flexible expansion

Model	VEB640-200KWh-R	VEB704-221KWh-R	VEB832-261KWh-R
System Parameters			
Nominal Capacity	200kWh	221kWh	261kWh
Module Quantity	10	11	13
Nominal Voltage	640V	704V	832V
Operation Voltage Range	560-720V	616-792V	728-936V
Rated Charge Current	180A		
Rated Discharge Current	180A		
Cycel Life	6000 Cycles@80%DOD, 25˚C		
Installation Environment	Indoor		
Communication	CAN/RS485		
Altitude	＜3000m		
Expansion	Max. 6 Cabinets in parallel		
Charge/Discharge Temperature Range	Charge: 0-50˚C, Discharge: -20-55˚C		
Ingress Protection	IP20		
Dimension (W*H*D)	1500*1200*945mm	1500*1200*945mm	2037*1200*945mm
Operating Humidity	≤95%RH		
Standard	IEC62619, IEC62477, CE-EMC, IEC63056		
Transport Testing Requirement	UN38.3		
Compatible Inverters	Solis, Deye, SAJ, Megareva etc.		
Battery Module			
Battery Type	LFP		
Cell Capacity	314Ah		
Module Capacity	20.09kWh		
Rated Voltage	64V		
Operation Voltage Range	56~72V		
Communication	CAN		
Dimension (W*H*D)	483*261*941mm		
Max. Charge/Discharge Current	160A		
Weight	147kg		

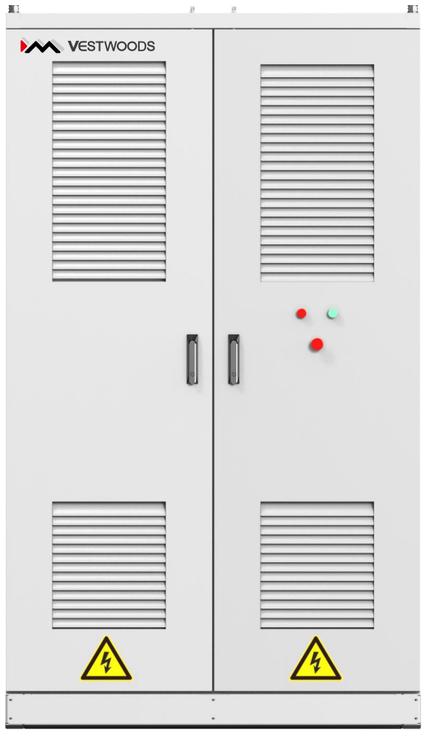
POWERHELP
PRO SERIES

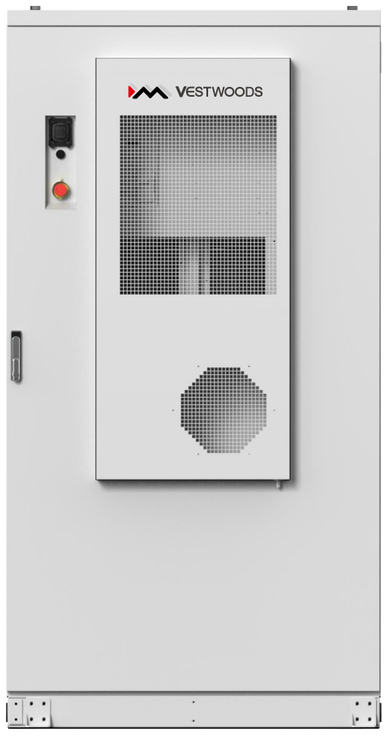
LFP Battery

≥6000 Cycles

0.5P Charge Discharge

Expand 1MW/2MWh





Model	VED 250K-522kWh-F	VED 500K-1MWh-F
On-Grid		
Rated AC Power	250kW	500kW
Max.AC Power	275kVA	550kVA
Rated AC Current	360A	720A
Rated AC Voltage	400V(-15%~+10%), 3W+PE/3W+N+PE	
Rated Frequency	50/60Hz(±5Hz)	
THDi	<3%(rated power)	
PF Adjustable Range	-1(leading) ~ +1(lagging)	
Off-Grid		
Rated AC Voltage	400Vac, 50/60Hz	
THDv	<3%(Linear load)	
Unbalanced Load Capability	100%	
Overload Capacity	110%: normal operation, 120%: 1 minute	
Max. Efficiency	98.50%	
Battery Charge/Discharge Rate	0.5P	
Battery Parameter		
Cell type/Capacity	LFP 314Ah	
Total Battery Energy	522kWh	1044kWh
Battery Cabinet Qty	2	4
Rated Battery Voltage	832V	
Operating Voltage Range	728-936V	
General		
Operating Temperature Range	-30~50℃	
Isolation Transformer Power	250kW	500kW
Ingress Protection	IP54	
Altitude	3000m(>3000m derating)	
Fire Protection	Airosol	
Standard	IEC 61000, IEC 62477-1:2012, IEC 61727, IEC 62116, GB, T 34120 EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, GB, T 34133	

POWERHELP
MAX SERIES

Standard 20ft container ESS system

All-in-one system with modular design

Real-time cloud platform data monitoring

Full system protection and diagnosis

Model	VES-3134kWh-L	VES-5025kWh-L
Battery Side		
Battery type	LFP	
Cell specifications	314Ah/3.2V	
Battery module grouping method	1P52S	
Battery module capacity	52.249kWh	
Battery cluster grouping method	1P260S	1P416S
Battery cluster capacity	261kWh	418kWh
Battery stack grouping method	12P260S	
Battery stack capacity	3134kWh	5015kWh
Battery cluster voltage range	728~930V	1165~1497V
Rated current	160A	
Rated charge and discharge rate	0.5P/0.5P	
General		
Cooling method	Intelligent liquid cooling	
Fire protection configuration	Combustible gas detection + explosion-proof exhaust + gas fire fighting + water fire fighting	
Noise	＜65dB (at 1m)	
Anti-corrosion level	C4 (C5 optional)	
Protection level	IP54	
Altitude	3000m (>2000m derating)	
Temperature range	-20˚C~55˚C	
Humidity range	0~95% (no condensation)	
Communication	RS485/CAN2.0/Ethernet	
Standard	UL9540/UL9540A/CE/IEC/KC/KBIA	
Transport Testing Requirement	UN38.3	
Dimension(W*D*H)	6058*2438*2591mm	6250*2550*3100mm
Total system weight	Approx. 32t	Approx. 38t

SMART RESIDENTIAL ESS SOLUTIONS

SMART RESIDENTIAL SOLUTION

Most safety $LiFePO_4$ as cathode material

Long cyclic life-6000 cycles (80%DOD)

High rate charge

Fashionable modular design with Haier Energy

SLIM

Model	VE51100L	VE51200L	VE51314L
Cell Type		LFP	
Nominal Energy	5.12kWh	10.24kWh	16.07kWh
Nominal Capacity	100Ah	200Ah	314Ah
Nominal Voltage		51.2V	
Operating Voltage Range		42.0~57.6V	
Nominal Charge Voltage		57.6V	
Charge Current/Max. Continuous	100A	200A	160A
Discharge Cut-off Voltage		42.0V	
Discharge Current/Max. Continuous	100A	200A	160A
Recommended Depth of Discharge		80%	
Ambient Temperature/Charge		0~60°C	
Ambient Temperature/Discharge		-20~60°C	
Dimension(W*H*D)	420*700*150mm	580*802*150mm	500*880*240mm
Weight	Approx. 45.0kg	Approx. 82.0kg	Approx. 114kg
IP Rating		IP20	
Expansion		Max. 15 Units in Parallel	
Color		Dark Silver-Gray, White	
Communication		CAN/RS485	
Cooling Mode		Natural Cooling	
Cycle Life		6000 Cycles, 80%DOD@25°C	
Design Life		15+ Years (25°C)	
Installation Method		Floor Mounted	
Allowed Humidity Range		≤95% RH	
Altitude		<2000m	
Protections		Over Charge/Over Discharge/Over Temperature Over Current/Short Circuit etc.	
Compatible Inverters		Deye/Solis/Hoymiles/Senergy/Afore/Megarevo/SRNE/Inhenergy etc.	
Certifications		UN38.3, IEC62619, CE-EMC, Rohs	

SMART RESIDENTIAL SOLUTION

Temperature/voltage self-adaptation function prolonging service life.

Wide voltage range compatible with a variety of inverters.

Plug-and-play installation, lower the installation costs.

Modular design and expandable

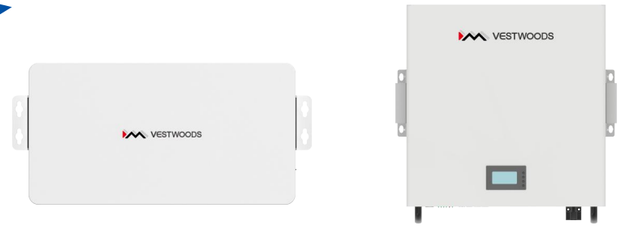
PROTECTIVE

Model	VE51100W	VE51200W	VE51314W
Nominal Energy	5.12kWh	10.24kWh	16.08kWh
Nominal Capacity	100Ah	200Ah	314Ah
Nominal Voltage	51.2V		
Operating Voltage Range	42.0V~57.6V		
Max. Continuous Current	100A	150A	157A
Ambient Temperature	Charge: 0~60℃ Discharge: -20~60℃		
Dimension(W*H*D)	410*665*206mm	530*762*260.5mm	500*880*240 mm
Weight	Approx. 51.8kg	Approx. 91kg	Approx. 114kg
IP Rating	IP65		
Expansion	Max. 15 units in parallel		
Cycle Life	6000 Cycles @80% DOD,25℃		

ECONOMICAL

Model	VE48100E	VT48200B
Nominal Energy	5.12kWh	9.6kWh
Nominal Capacity	100Ah	200Ah
Nominal Voltage	51.2V	48.0V
Operating Voltage Range	42.0V~57.6V	40.5V~54.0V
Max. Continuous Current	100A	
Ambient Temperature	Charge: 0~60℃ Discharge: -20~60℃	
Dimension(W*H*D)	440*130*400mm	444*221.5*490mm
Weight	Approx. 41kg	Approx. 78kg
IP Rating	IP20	
Expansion	Max. 15 units in parallel	
Cycle Life	6000 Cycles @80% DOD,25℃	
Design Certification	UN38.3, CE-EMC, IEC 62619, IEC62620, Rohs	

CONVENIENT



Model	VE24100	VT48100E-W
Nominal Energy	2.56kWh	5.12kWh
Nominal Capacity	100Ah	100Ah
Nominal Voltage	25.6V	51.2V
Operating Voltage Range	21.0~28.8V	42.0-57.6V
Max. Continuous Current	100A	100A
Ambient Temperature	Charge: 0~60℃ Discharge: -20~60℃	
Dimension(W*H*D)	135*260*490mm	443*450*150 mm
Weight	Approx. 22kg	Approx. 43kg
IP Rating	IP20	IP20
Expansion	Max. 4 units in parallel	Max. 15 units in parallel
Cycle Life	6000 Cycles @80% DOD,25℃	

SINGLE PHASE LV SERIES

HYBRID INVERTER

Off grid switching time <10ms, no perception of power outage

Intelligent AFCI protection to reduce fire risk by preventing DC arc faults

Top quality IGBT components ensure long-term safe and stable operation

IP65 CE RoHS IEC

Model	VS6.0LV
Battery	
Battery Voltage Range	40-60V
Max. Charge/Discharge Current	100/100A
Max. Charge/Discharge Power	5000/5000W
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Charging Curve	3 Stages/Equalization
PV Input	
Recommended Max. PV Power	7500W
Max. Input Voltage	550V
Rated Voltage	360V
Start-UP Voltage	150V
MPPT Voltage Range	125-500V
Max. Input Current	14/14A
Max. Short Circuit Current	17/17A
MPPT Number/Max. Input Strings Number	2/2
AC Input and Output (On-grid)	
Rated Output Power	6000W
Max. Output Apparent Power	6000VA
Max. Input Power	7360W
Rated AC Output Voltage/Range	230V, 161-276V
Rated Grid Frequency	50/60Hz
Max. Output Current	26.0A
Max. Input Current	32.0A
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)
THDi (@Rated Output)	<3%
AC Output (Off-Grid)	
Rated Output Power	6000W
Max. Output Apparent Power	10000, 10s
Back-up Switch Time	<10
Rated Output Voltage	230V
Rated Output Frequency	50/60Hz
Max. Continuous Output Current	26.0A
THDv (@linear load)	<3%
Efficiency	
MPPT Efficiency	99.9%
Max. Efficiency	97.6%
EU Efficiency	97.0%
Max. Battery Discharge to AC Efficiency	95.0%
General	
Protection	Anti-islanding protection, PV string input reverse polarity protection, Insulation resistor detection, Residual current monitoring unit, AC over current protection, AC short current protection, AC overvoltage and undervoltage protection Surge protection (DC Type II/AC Type III)
Dimension(W*H*D)	502*461*202mm
Weight	24kg
Mounting	Wall mounting
Operating Temperature	-25°C to +65°C (>45°C, derating)
Relative Humidity	0-95%, no condensing
Cooling	Natural convection
Topology (Solar/Battery)	Transformerless/High-frequency isolation
Altitude	≤2000m
Protection Degree	IP65
Noise	<40dB
User Interface	LED, App
Digital Input/Output	DRM, 1×DI, 2×DO
Communication	RS485, optional: Wi-Fi/Ethernet/4G
Certifications and Standards	
Grid Connection Standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A, RD647, NTS (SENP), CEI 0-21 2019:04, C10-11 Type A
Software Approval	IEC 62109-1/-2, EN 61000-6-1/-3

*This series is recommended to be compatible with VE-L & VE-W series of batteries.

THREE PHASE LV SERIES

HYBRID INVERTER

200% PV oversizing and 4MPPT with only 150V start-up voltage

Implement power control for each phase and calculate power balance

Off grid switching time <10ms, no perception of power outage

Intelligent AFCI protection to reduce fire risk by preventing DC arc faults

Top quality IGBT components ensure long-term safe and stable operation

IP66 CE RoHS IEC

Model	VT15.0LV	VT20.0LV
Battery		
Battery Voltage Range	40-60V	
Max. Charge/Discharge Current	300/300A	350/350A
Charging Strategy For Liion Battery	Self-adaption to BMS	
Charging Curve	3 Stages/Equalization	
PV Input		
Recommended Max. PV Power	30000W	40000W
Max. Input Voltage	1000V	
Rated Voltage	720V	
Start-UP Voltage	150V	
MPPT Voltage Range	150-900V	
Max. Input Current	20A/20A/20A/20A	
Max. Short Circuit Current	30A/30A/30A/30A	
MPPT Number/Max. Input Strings Number	4/4	
AC Input and Output (On-grid)		
Rated Output Power	15000W	20000W
Max. Output Apparent Power	16500VA	22000VA
Grid Form	3L/N/PE	
Rated AC Output Voltage/Range	380V/400V, 266V-480V	
Rated Grid Frequency	50/60Hz	
Max. Output Current	25A	33.3A
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi (@Rated Output)	<3%	
AC Output ((Back-up)		
Rated Output Power	15000W	20000W
Max. Output Apparent Power	30000VA, 10s	40000VA, 10s
Back-up Switch Time	<10ms	
Grid Form	3L/N/PE	
Rated Output Voltage	380V/400V	
Rated Output Frequency	50/60Hz	
Max. Continuous Output Current	22.8A	30.4A
Max. Continuous AC Bypass Current	50A	
THDv (@linear load)	<3%	
Efficiency		
MPPT Efficiency	99.9%	
Max. Efficiency	98.5%	
EU Efficiency	98.0%	
Max. Battery Discharge to AC Efficiency	95.7%	
General		
Protection	Anti-islanding protection, PV string input reverse polarity protection, Insulation resistor detection, Residual current monitoring unit, AC over current protection, AC short current protection, AC overvoltage and undervoltage protection Surge protection (DC Type II/AC Type III)	
Dimension(W*H*D)	539*696*232mm	
Weight	41kg	
Mounting	Wall mounting	
Operating Temperature	-25℃ to +65℃ (>45℃, derating)	
Relative Humidity	0-95%, no condensing	
Cooling	Smart fan	
Topology (Solar/Battery)	Transformerless/High-frequency isolation	
Altitude	≤4000m (>2000m, derating)	
Protection Degree	IP66	
Noise	< 55dB	
User Interface	LED, App	
Digital Input/Output	DRM, 2 × DI, 2 × DO	
Communication	RS485, Wi-Fi/WL/4G (optional)	
Certifications and Standards		
Grid Connection Standard	IEC 61727, IEC 62116, EN 50549, VDE-AR-N 4105	
Software Approval	IEC 62109-1/-2, EN 61000-6-1/-2/-3/-4	

*This series is recommended to be compatible with VE-L & VE-W series of batteries.

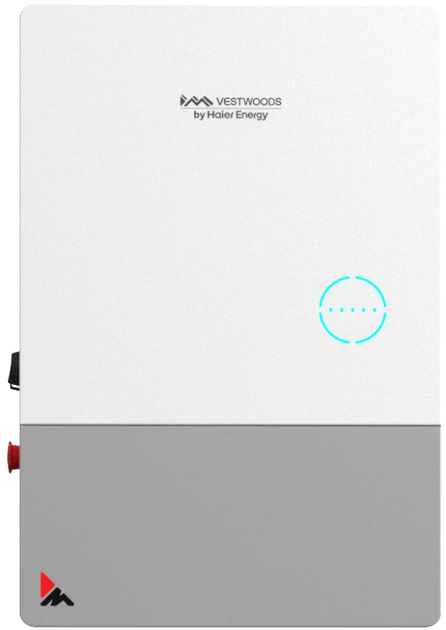
SPLIT PHASE LV SERIES

HYBRID INVERTER

130% PV oversizing and 2MPPT with only 150V start-up voltage

Intelligent AFCI protection to reduce fire risk by preventing DC arc faults

Top quality IGBT components ensure long-term safe and stable operation



IP65 UL RoHS IEC

Model	VS11.5LV
Battery	
Battery Voltage Range	40-60V
Max. Charge/Discharge Current	200/200A
Max. Charge/Discharge Power	9600/9600W
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Charging Curve	3 Stages/Equalization
PV Input	
Recommended Max. PV Power	14400W
Max. Input Voltage	550V
Rated Voltage	380V
Start-up Voltage	150V
MPPT Voltage Range	125-500V
Max. Input Current	32/32A
Max. Short Circuit Current	40/40A
MPPT Number/Max. Input Strings Number	2/4
AC Input and Output (On-grid)	
Rated Output Power	11520W
Max. Output Apparent Power	11520VA
Max. Input Power	19200W
Rated AC Output Voltage/Range	240V, 211-264/208V, 183-229V
Rated Grid Frequency	60Hz
Max. Output Current	48A
Max. Input Current	80A
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)
THDi (@rated Output)	<3%
AC Output (Off-grid)	
Rated Output Power	9600W
Max. Output Apparent Power	19200VA, 10s
Back-up Switch Time	<40
Rated Output Voltage	120/240V (split phase), 120/208V
Rated Output Frequency	60Hz
Max. Continuous Output Current	40A
THDv (@linear load)	<3%
Efficiency	
MPPT Efficiency	99.9%
Max. Efficiency	97.6%
EU Efficiency	97.0%
Max. Battery Discharge to AC Efficiency	95.0%
General	
Protection	Anti-islanding protection, PV string input reverse polarity protection, Insulation resistor detection, Residual current monitoring unit, AC over current protection, AC short current protection, AC overvoltage and undervoltage protection Surge protection (DC Type II/AC Type III)
Dimensions (W*H*D [mm])	19.8*29.1*7.95 inch (502*740*202mm)
Weight	90.4 lbs (41kg)
Mounting	Wall mounting
Operating Temperature	-13°F to +149°F (>113°F, derating)/-25°C to +65°C (>45°C, derating)
Relative Humidity	0-95%, no condensing
Cooling	Natural convection
Topology (Solar/Battery)	Transformerless/High-frequency isolation
Altitude	≤6562 ft (2000 m)
Protection Degree	Type 4X
Noise	<40dB
User Interface	LED, App
Digital Input/Output	1 × DI, 2 × DO
Max. Parallel	10
Warranty	RS485, optional: Wi-Fi/Ethernet/4G
Communication	10 Years
Certifications and Standards	
Grid Connection Standard	IEEE 1547-2018, IEEE 1547.1-2020, SRD2.0
Safety/EMC Standard	UL 1741, CSA C22.2 No.107.1, UL 1741 CRD, UL 1741 SB, FCC Part 15 Class B
AFCI	UL 1699B
Software Approval	UL 1998

*This series is recommended to be compatible with VE-L & VE-W series of batteries.

SINGLE PHASE LV SERIES

OFF-GRID INVERTER

1.7 times the maximum MPPT input power; under specific conditions, supports up to 2 times the PV input power

Maximum MPPT input current of 28A, supporting multiple strings of photovoltaic panels connected in parallel.

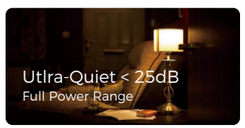
Supports parallel connection of up to 6 single-phase inverters or 9 three-phase inverters in a grid configuration.

IP66 CE IEC

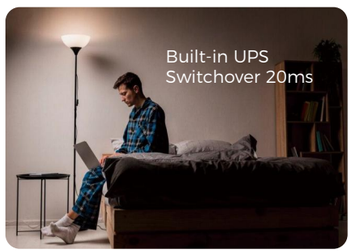
Model	HEH-S6KB3-LV
Battery Data	
Battery Type	Lithium-ion & Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max. Charge/Discharge Current	125/135A
Forced Wake-up by PV	YES
PV Input	
Max. PV Access Power	12000W
Max. MPPT Input Power	10200W
Max. Input Voltage	500V
Rated Input Voltage	370V
MPPT Voltage Range	60~450V
No. Of MPPT/ Strings Per MPPT	1/2
Max Input Current Per MPPT	28A
Max. Short Circuit Current Per MPPT	35A
Grid Input	
Rated Grid Voltage	220/230/240V±5%
Voltage Input Range	90~280V
Rated Grid Frequency	50/60Hz
Max Input CurrentA	40A
Total Harmonic Distortion	<3% (of nominal power)
Backup Data	
Rated Output Power	6000W
Rated Output Current	27A
Rated Output Frequency	50/60Hz±0.1%
Overload Capability	1min@101-110%;10s@110%～150%;5s@150%～200%;100ms@＞200%
Switch Time	10ms for Computer Equipment,20ms for Household Equipment
Total Harmonic Distortion	<3%
Efficiency	
Max. Efficiency	97.0%
MPPT Tracking Efficiency	99.9%
Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection,Surge protection level
Surge Protection	TYPE II(DC), TYPE II(AC)
Over Voltage Category	OVC II (DC), OVC III (AC)
General Data	
Operating Temperature	-40~+60℃ (Above 45℃ Derating)
Dimensions [W*H*D]	395*485*156mm
Weight	14.5kg
Inverter Topology	Non-Isolated
Cooling	Smart cooling
Altitude	≤3000m
Protection Level	IP66
Communication	RS232 / RS485 / CAN / Dry contact/ External battery NTC/Parallel communication/WIFI(optional)
Warranty	5 Years
Standard	
Safety Standards	IEC 62109-1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011
EMC Standards	EN IEC 61000-6-1:2019;EN IEC 61000-6-3:2021;EN IEC 61000-3-11:2019;EN61000-3-12:2011
Efficiency Standard	IEC 61683:1999

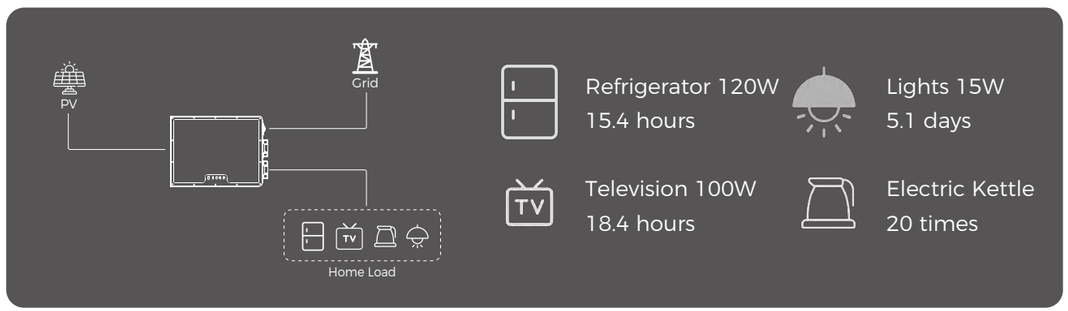
RESCUBE

OFF-GRID MINI HOME POWER



2009.6Wh Capacity
LFP Battery
Safe and Reliable



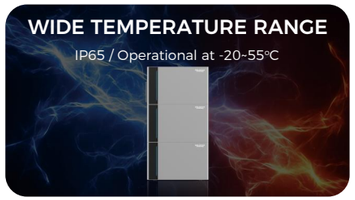


INSTALL-FREE BACKUP POWER

Model	PowerHelp-Mini
PV Input	
Max. PV Input Power	600W
PV Input Voltage Range& Start Voltage	10~100Vdc,20Vdc
Maximum Charge Current	16A
MPPT Efficiency	>99%
PV Input Port	MC4
AC Input	
Max. AC Input Power	1150W
Input Voltage Range & Frequency	155-300Vac, 45~65Hz
Max. Input Current	7.5A±10%(RMS)
AC Input Port	1*Socket (optional)
AC Output	
Rated & Peak Output Power	1000W,1500W(15s)
Output Voltage Range & Frequency	2*220~240Vac,1P,50±0.2Hz
AC Output Port	2*Sockets (optional)
Switch Time	<20ms
Battery Parameters	
Cell Type	LFP
Nominal Battery Voltage	6.4V
Nominal Battery Energy	2009.6Wh
General Specification	
Cooling Mode	Natural cooling
Altitude	≤2000m (Output Degradation over 2000m)
Noise	<25dB
Weight	19kg
Dimension(W*H*D)	310*304*200mm
IP Rating	IP20
Operating Temperature Range	Charging:0°C~45°C;Discharging:-20°C~45°C
Allowed Humidity Range	20%~85%

RESCUBE ULTRA

ON/OFF-GRID STACKABLE MINI HOME POWER



INSTALL-FREE HOME POWER BANK

Model	Rescube Ultra
Battery Type	LiFeP04
Life Cycle [25˚C/80%DoD/70%EoL]	8000
Capicty	2010Wh
Max Expansion Battery Quantity	4*
Max Parallel Quantity	3*
Communication	WiFi / Bluetooth / LoRa / 4G (option)
Warranty [year]	10
IP Level	IP65
Weight	23kg
Dimension	425*195*260mm
PV Input	
Max. PV Power	2400Wp @STC
MPPT Voltage Range	10V~60V
No. of MPPT	4
Rating Current	15A
Maximum Input Current	16A
MPPT Effiency Max	>99%
AC Output(on Grid)	
Rated AC Power Output	800W (default)
AC Coupling Input	2400W(Max)**
Rated AC Voltage	230V
Rated Frequency	50Hz
Rated Current	3.5A @230Vac
Power Factor	0.8leading~0.8 lagging
AC Output(Off Grid)	
Rated AC Power	2400W(Max)**
Rated AC Voltage	230V
Rated Frequency	50Hz
Rated Current	10.5A @230Vac
AC Input(ON/Off Grid)	
Rated AC Power	2400W(Max)**
Rated AC Voltage	220V/230V/240V
Rated Frequency	50Hz
Rated Current [A]@230Vac	10.5A @230Vac
EPS Rated Power	2400W(Max)**
EPS Switch Time	<10ms

TELECOM &
IDC BACKUP SOLUTIONS

TELECOM BACKUP

Battery System Solutions

Special For Harsh Environment

0.1% Failure rate

20+ International certifications

8+ Anti-theft function, 8 layers of protection monitoring

Model	VT4820	VT4850
Nominal Capacity	20Ah	50Ah
Nominal Charge Voltage	54.0V	
Norminal Voltage	48V	
Maximum Charge/Discharge Current	20A	50A
Dimension(W*H*D)	442*89*275mm	445*130*400mm
Weight	10kg	28kg
Operating Voltage Range	40.5V~54V	
Ambient Temperature	Charge: 0~60℃ Discharge: -20~60℃	
Optional Function	Intelligent anti-theft solution(optional) , LCD(optional) CAN/SNMP	
IP Rating	IP20	
Expansion	Max.15 Units in Parallel	
Design Certification	UN38.3, UL1973, IEC 62619, IEC 62620, CE-EMC	

Model	VT48100	VT48150
Nominal Capacity	100Ah	150Ah
Norminal Voltage	48V	
Maximum Charge/Discharge Current	100A	
Dimension(W*H*D)	442*130*400mm	442*177*450mm
Weight	39kg	55kg
Operating Voltage Range	40.5V~54V	
Ambient Temperature	Charge: 0~60°C Discharge: -20~60°C	
Optional Function	Intelligent anti-theft solution(optional) , LCD(optional) CAN/SNMP/	

Model	VT48200	VT48300
Nominal Capacity	200Ah	300Ah
Norminal Voltage	48V	
Maximum Charge/Discharge Current	100A	
Dimension(W*H*D)	444*222*490mm	445*222*600mm
Weight	78kg	103kg
Operating Voltage Range	40.5V~54V	
Ambient Temperature	Charge: 0~60°C Discharge: -20~60°C	
Optional Function	Intelligent anti-theft solution, LCD CAN/SNMP	

Model	VT48100E-ST
Nominal Capacity	100Ah
Norminal Voltage	48V
Maximum Charge/Discharge Current	100A
Cycle Life	3500 cycles @80% DOD,25°C
Dimension(W*H*D)	445*130*450mm
Weight	43kg
Operating Voltage Range	40.5V~54V
Feature	Lithium lead-acid mixed, old and new batteries mixed, peak cutting and valley filling

FLEXLI SERIES

LFP Smart Lib Solutions

- 3C — Maximum discharge current 3C
- Three layers of BMS protection
- Real-time monitoring and management platform
- Standard modular design
- The system supports up to 20 parallel

Model	LFP Smart LiB Solutions
System Parameters	
Cell Type	LFP
Nominal Energy	51.2kWh
Nominal Capacity	100Ah
Nominal Voltage	512Vdc
Operating Voltage Range	448~576Vdc
Wiring Method	3-Wire/2-Wire Type (Optional)
Limited Charge Voltage/@25°C	576Vdc
Max. Continuous/Charge Current	100A
Discharge Cut-off Voltage/@25°C	448Vdc
Max. Continuous Discharge Current	300A
Recommended DOD	80%
Ambient Temperature/Charge	0°C~45°C
Ambient Temperature/Discharge	0°C~50°C
Dimension(W*H*D)	600*2000*1000mm
Weight	753kg
IP Rating	IP20
Expansion	10
Display	LCD/Alarm indicator
Communication	CAN,RS485,DO/DI,SNMP-V3(Optional)
Cooling Mode	Natural
Cycle Life	≥3500 cycles 80%DOD@25°C
Design Life	15+ years
Feeding in & out Method	Top/Bottom in & out
Humidity	≤95% RH
Altitude	≤2000 normal operation; >2000m, 10% derate/1000m
Design Certification	UN38.3/ IEC62619/EN61000
Battery Pack	
Nominal Module Energy	5.12kWh
Nominal Module Voltage	51.2Vdc
Dimension(W*H*D)	483*154*600mm
Weight	57kg

LEAD-ACID

REPLACEMENT BATTERIES

LEAD-ACID REPLACEMENT BATTERIES

Remote Control

Easy Indoor Outdoor Mobility

Ultra-pure Mute

IP65 Waterproof Design

Model	VC12100	VC12200
Nominal Energy	1280Wh	2560Wh
Nominal Capacity	100Ah	200Ah
Dimension(W*H*D)	307*213*169mm	520*220*270mm
Weight	11.5kg	22.9kg
Max. Continuous Discharge Current	100A	100A
Peak Discharge Current	300A@3S	
Max. Configuration	Max. 4 units in parallel or series	
IP Rating	IP65	
Nominal Voltage	12.8V	
Operating Voltage Range	10.8V~14.6V	

Model	VC1208	VC1250
Nominal Energy	102.4Wh	640Wh
Nominal Capacity	8Ah	50Ah
Dimension(W*H*D)	151*94*65mm	223*178*150mm
Weight	0.95kg	5.6kg
Max. Continuous Discharge Current	8A	20A
Peak Discharge Current	16A@5S	40A@5S
Max. Configuration	Max. 4 units in parallel	
IP Rating	IP65	
Nominal Voltage	12.8V	
Operating Voltage Range	10.8V~14.6V	

Model	VC24100	VC12300
Nominal Energy	2560Wh	3840Wh
Nominal Capacity	100Ah	300Ah
Dimension(W*H*D)	520*220*270mm	520*220*270mm
Weight	22.9kg	26.1kg
Max. Continuous Discharge Current	100A	100A
Peak Discharge Current	300A@3S	
Max. Configuration	Max. 4 units in parallel or series	
IP Rating	IP65	
Nominal Voltage	12.8V	
Operating Voltage Range	10.8V~14.6V	