VEICHI

Power For Ever

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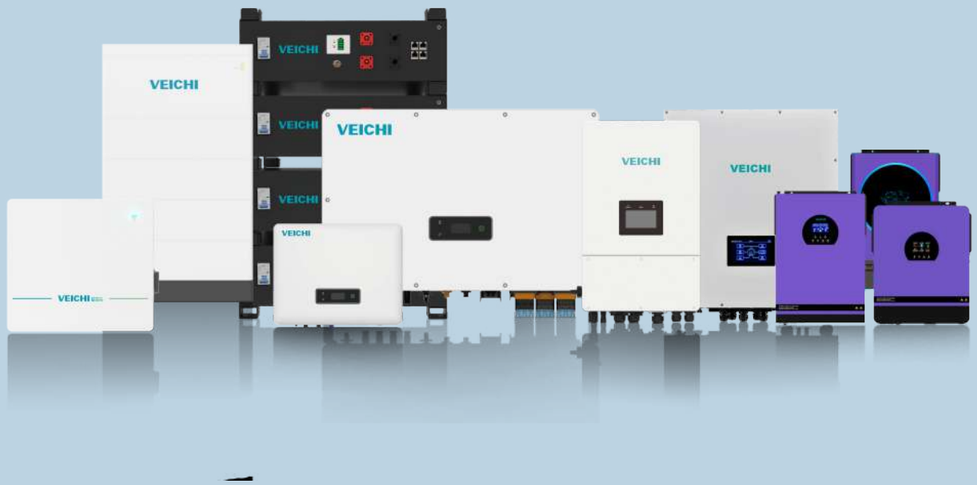
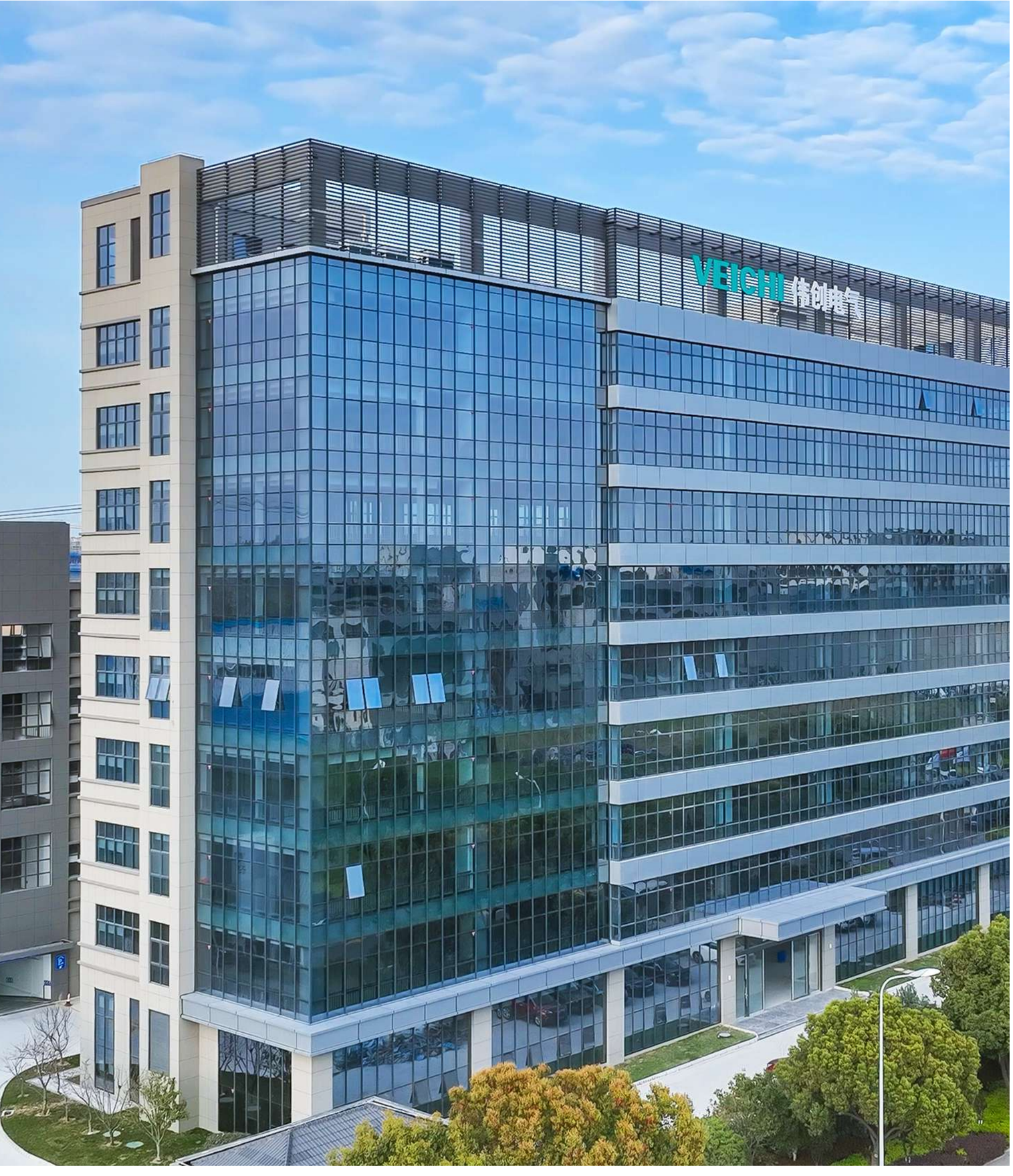
VEICHI

VEICHI PRODUCT CATALOG

Empowering Energy Solutions

Smart Flexible Secure Stable





About Veichi

VEICHI Electric (stock code: 688698) has always been dedicated to the field of electrical drive and industrial control since its establishment, and now it is a high-tech enterprise engaged in R&D, production, and sales of industrial automation products in one. With R&D and production bases in Suzhou, Shenzhen and Xi'an, and a wholly-owned subsidiary in India, VEICHI now is capable of conducting its business to many countries and regions with competitive, safe and reliable products and services to customers all over the world.

Plentiful products cover AC drives, servo systems and control systems, which are widely used in heavy industry, light industry, high-end equipment and more to facilitate the intellectualized transformation of the manufacturing industry with solutions customized to different scenarios. In the meanwhile, along the development trend of the times, VEICHI is extending its place to the emerging fields such as robotics, new energy, and medical care, and has developed products such as coreless motors, frameless motors, photovoltaic AC drives, and surgical power systems, which have deeply empowered the impressively promising industries.

On long-term and persistent independent R&D and innovation, VEICHI has successfully cultivated a series of patented technologies with independent intellectual property rights, and has mastered the core technologies of motor control such as vector control of PMSM, high-frequency pulse injection control, field-weakening control for higher speed, scalar V/F control and vector control etc., and of silicon carbide application, motor parameter tuning and identification, motor control and protection, and motor speed tracking and start-up control. As of June 30, 2023, a total of 163 patents have been granted, including 43 patents for inventions.

VEICHI has been developing step by step over the past 18 years with abundant honorary awards and certificates from the state and competent authorities, including "the Third Batch of Special and Sophisticated 'Small Giant' Enterprises That Produce Novel and Unique Products" "High-tech Enterprises", "Jiangsu Provincial Engineering Technology Research Center", "Jiangsu Provincial Enterprise Technology Center", "Jiangsu Provincial Industrial Internet Development Demonstration Enterprise (Benchmarking Factory Category)" and others.

In the future, VEICHI Electric will continue to uphold the business philosophy of " guided by market demand and driven by technological innovation", strengthen the key core technology research and product iteration, and constantly expand its high-performance, high-quality, high-reliability applications, contributing to the development of electrical drive and industrial control with might and main.

10+

Experience in manufacturing fully automated factories

19 years

Core team`s experience in the energy storage sector

100+

A senior research and development team

221

Patented technology

Low Voltage Single Phase Hybrid Inverter

VHS-5K-L01-K

Features

- High impact load resistance
- 4 power input from PV modular, Battery, Grid & Diesel generator
- Real-time Smart Energy Management
- ≤10ms UPS-levelswitching
- Colorful touch LCD screen
- Max. charging/discharging current of 120A
- IP65 protection level
- Max. 8 units parallel connection

Technical Specifications

Model	VHS-5K-L01-K
Battery Input	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	48(40~60)
Max. Charging/ Discharging Current (A)	120
Max. Charging/ Discharging Power (W)	5000/5300
PV String Input	
Max. DC Input Power (W)	6500
Max. PV Input Voltage (V)	600
MPPT Voltage Range (V)	60~550
Rated Input Voltage (V)	360
Max. Input Current Per MPPT(A)	16
Max. Short Circuit Current Per MPPT (A)	23
MPPT Tracker No.	2
AC Output	
Rated AC Active Power Output (W)	5000
Rated Output Voltage (V)	220/230
Output AC Frequency (Hz)	50/60
Rated AC Current Output (A)	22.7/21.7
Power Factor	~1 (0.8 leading to 0.8 lagging)
Total Harmonic Current Distortion (THDi)	<2%
Automatic Switching Time (ms)	≤10
Total Harmonic Voltage Distortion(THDu)(@ linear load)	<2%
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%
Protection	
Insulation Resistor Detection,Residual Current Monitoring Unit,DC Reverse Polarity Protection, Anti-islanding Protection,Output Over Current Protection,Output Shorted Protection, Surge Protection, Over Voltage Protection	Integrated
General Data	
Operating Temperature Range (℃)	-25~+60，>45℃ Derating
Max. Operating Altitude (M)	3000 (Derating above 2000m)
Cooling	Natural convection
HMI	LCD,WLAN+ APP
Communication with BMS	CAN/RS485
Electric Meter Communication Mode	RS485
Monitoring Mode	Wifi/BlueTooth+LAN/4G
Weight (Kg)	22
Dimension (Width*Height*Thickness)(mm)	370×595×222
Night Power Consumption (W)	<10
Protection Degree	IP65
Installation Method	Wall-mounted
Parallel Function	Max.8 units

Low Voltage Three Phase Hybrid Inverter

SIT-12K-H/SIT-15K-H

Features

- Pure sine wave output
- Programmable supply priority
- Work with or without battery
- Convenient design & Installation
- IP65 waterproof and dustproof makes the inverter available forvarious working conditions
- Built-in WiFi for mobile monitoring
- 150% unbalaned load support.Maximum PV input current 26A
- Dual outputs for smart load management
- User-adjustable charging current·Reserved communication port for BMS
- Parallel operation up to 6 units

Technical Specifications

Model	SIT-12K-H	SIT-15K-H
Rated Output Power	12000W	15000W
Grid-tie Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	720V DC/1000V DC	720V DC/1000V DC
Start-up Voltage/Initial Feeding Voltage	320V DC/350V DC	320V DC/350V DC
MPPT Voltage Range	350V DC~950V DC	350V DC~950V DC
Number of MPPT Trackers/Maximun Input Current	2/A:27A,B:27A	2/A:27A,B:27A
Grid Output (AC)		
Nominal Output Voltage	230 VAC(P-N)/400 VAC(P-P)	230 VAC(P-N)/400 VAC(P-P)
Output Voltage Range	184~265 VAC per phase	184~265 VAC per phase
Nominal Output Current	17.4A per phase	21.7A per phase
Power Factor	0.9 lag~0.9 lead	0.9 lag~0.9 lead
Efficiency		
Maximun Conversion Efficiency(DC/AC)	96%	96%
Off-grid Operation		
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120~140 VAC/180 VAC	120~140 VAC/180 VAC
Acceptable Input Voltage Range	170~290 VAC per phase	170~290 VAC per phase
Frequency Range	50Hz/60Hz(Auto sensing)	50Hz/60Hz(Auto sensing)
Maximum AC Input Current	40A	40A
PV Input (DC)		
Maximum DC Voltage	1000V DC	1000V DC
MPPT Voltage Range	350VDC~950VDC	350VDC~950VDC
Number of MPPT Trackers/Maximum Input Current	2/A:27A,B:27A	2/A:27A,B:27A
Battery Mode Output(AC)		
Nominal Output Voltage	230VAC(P-N)/400 VAC(P-P)	230VAC(P-N)/400 VAC(P-P)
Output Waveform	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	91%	91%
Hybrid Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	720VDC/1000VDC	720VDC/1000VDC
Start-up Voltage/Initial Feeding Voltage	320VDC/350VDC	320VDC/350VDC
MPPT Voltage Range	350VDC~950VDC	350VDC~950VDC
Number of MPPT Trackers/Maximum Input Current	2/A:27A,B:27A	2/A:27A,B:27A
Grid Output(AC)		
Nominal Output Voltage	230VAC(P-N)/400 VAC(P-P)	230VAC(P-N)/400 VAC(P-P)
Output Voltage Range	184~265 VAC per phase	184~265 VAC per phase
Nominal Output Current	17.4A per phase	21.7A per phase
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120~140 VAC/180VAC	120~140 VAC/180VAC
Acceptable Input Voltage Range	170~290 VAC per phase	170~290 VAC per phase
Maximum AC Input Current	40A	40A
Battery Mode Output(AC)		
Nominal Output Voltage	230VAC(P-N)/400 VAC(P-P)	230VAC(P-N)/400 VAC(P-P)
Efficiency(DC TO AC)	91%	91%
Battery & Charger		
Nominal DC Voltage	48VDC~62VDC	40VDC~62VDC
Maximum Charge Current	250A	300A
Protection		
Over Temperature	Integrated	Integrated
Battery Low	Integrated	Integrated
Battery High	Integrated	Integrated
Output Short Circuit	Integrated	Integrated
Output Voltage too High	Integrated	Integrated
Output Voltage too Low	Integrated	Integrated
Bus Voltage High	Integrated	Integrated
Bus Voltage Low	Integrated	Integrated
PV Voltage is Over Limitation	Integrated	Integrated
General		
Physical		
Dimension,D×W×H(mm)	255×660×750	255×660×750
Net Weight(kgs)	70	73
Interface		
Parallel Function	6 units	6 units
Communication Interface	USB/RS232/RS485/WIFI/CAN	USB/RS232/RS485/WIFI/CAN
Environment		
Humidity	0%~100% relative humidity(Non-condensing)	0%~100% relative humidity(Non-condensing)
Operating Temperature	-25℃~60℃,>45℃ power derating	-25℃~60℃,>45℃ power derating

High Voltage Three Phase Hybrid Inverter

VHT-8K/10K/12K-25-H

15A
Max. PV Input Current

110%
Unbalanced Output

25A
Max. Charge/Discharge

Residential | Three Phase | HV Battery | 2 MPPTS

Features

Maximized Energy Harvesting

- 150%CD oversizing boosts solar capture
- 110% unbalanced output enhances self-consunption
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

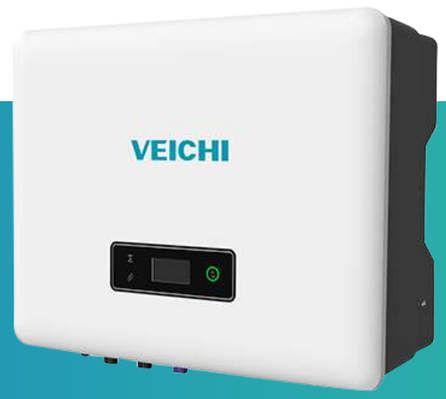
- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort

Intelligent Energy Dynamics

- Five work modes for diverse use
- SupperToU station management:supports flexible and customizable operation modes.
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Simplified Interaction

- Remote upgrades maintain system health
- OLED and App for easy control



Technical Specifications

Mode		VHT-8K-25-H	VHT-10K-25-H	VHT-12K-25-H
PV Input				
Recommended Max.input power	[kW]	12.0	15.0	18.0
Start-up voltage	[V]	135	135	135
Max.DC input voltage*	[V]	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620
MPPT voltage range*	[V]	200-950*	200-950*	200-950*
No.of MPP trackers		2	2	2
No.of DC inputs per MPPT		1/1	1/1	1/1
Max.input current	[A]	15/15	15/15	15/15
Max.short-circuit current	[A]	20/20	20/20	20/20
Battery Side				
Battery type		Lithium Battery (with BMS)		
Battery voltage range	[V]	135-750		
Maximum charging/discharge current	[A]	25/25		
Grid Side				
Rated output power	[kw]	8.0	10.0	12.0
Max.output apparent power	[kVA]	8.8	11.0[1)]	13.2
Max.input apparent power**	[kVA]	16.0	16.5	16.5
Max.charging power of battery	[kW]	8.0	10.0	12.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V		
Rated AC frequency	[Hz]	50/60	50/60	50/60
Max.output current	[A]	13.3	16.5[2)]	20.0
Power factor		0.8 leading…0.8 lagging		
Max.total harmonic distortion		<3%@Rated output power		
DCI		<0.5%In	<0.5%In	<0.5%In
Back-up Side				
Rated output power	[kW]	8.0	10.0	12.0
Max.output apparent power	[kVA]	8.8	11.0	13.2
Max.output current	[A]	13.3	16.5	20.0
UPS switching time		<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE;220/380V;230/400V;240/415V		
Rated output frequency	[Hz]	50/60	50/60	50/60
Voltage harmonic distortion		<3%@Linear load		
Efficiency				
Max.efficiency		98.2%	98.2%	98.2%
European efficiency		97.4%	97.4%	97.4%
Protection				
DC reverse polarity protection		Integrated		
Battery input reverse connection protection		Integrated		
Insulation resistance protection		Integrated		
Surge protection		Integrated		
Over-temperature protection		Integrated		
Residual current protection		Integrated		
Islanding protection		Integrated		
AC over-voltage protection		Integrated		
Overload protection		Integrated		
AC short-circuit protection		Integrated		
General Data				
Over voltage category		PV:II Main:III		
Dimensions	[W×H×D mm]	534×418×210		
Weight	[KG]	26.0		
Protection degree		IP65		
Standby self-consumption	[W]	<15		
Topology		Transformerless		
Operating Temperature Range	[℃]	-30~60		
Relative Humidity	[%]	0~100		
Operating Altitude	[m]	3000 (>3000m derating)		
Cooling		Natural Convection		
Noise Level	[dB]	<25		
Display		OLED & LED		
Communication		CAN,RS485,WiFi/LAN (Optional)		

High Voltage Three Phase Hybrid Inverter

VHT-10K/12K/15K/20K-40-H

20A
Max. PV Input Current

110%
Unbalanced Output

40A
Max. Charge/Discharge

Residential | Three Phase | HV Battery | 2 MPPTS

Features

Maximized Energy Harvesting

- 110% unbalanced output enhances self-consunption
- 40A charging/discharging for efficiency energy transfer
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

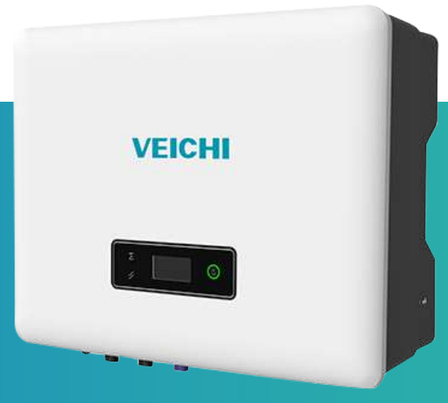
- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors

Intelligent Energy Dynamics

- Five work modes for diverse use
- SupperToU station management:supports flexible and customizable operation modes.
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Simplified Interaction

- Remote upgrades maintain system health
- OLED and App for easy control



Technical Specifications

Mode		VHT-10K-40-H	VHT-12K-40-H	VHT-15K-40-H	VHT-20K-40-H
PV Input					
Recommended Max.input power	[kW]	15.0	18.0	22.5	30.0
Start-up voltage	[V]	135	135	135	135
Max.DC input voltage*	[V]	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620
MPPT voltage range*	[V]	200-950*	200-950*	200-950*	200-950*
No.of MPP trackers		2	2	2	2
No.of DC inputs per MPPT		2/2	2/2	2/2	2/2
Max.input current	[A]	30/30	30/30	30/30	30/30
Max.short-circuit current	[A]	40/40	40/40	40/40	40/40
Battery Side					
Battery type		Lithium Battery (with BMS)			
Battery voltage range	[V]	135-750			
Maximum charging/discharge current	[A]	40/40			
Grid Side					
Rated output power	[kw]	10.0	12.0	15.0	20.0
Max.output apparent power	[kVA]	11.0[1)]	13.2	16.5[3)]	22.0
Max.input apparent power**	[kVA]	20.0	24.0	30.0	30.0
Max.charging power of battery	[kW]	10.0	12.0	15.0	20.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V			
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60
Max.output current	[A]	16.5[2)]	20.0	25.0[4)]	33.5
Power factor		0.8 leading…0.8 lagging			
Max.total harmonic distortion		<3%@Rated output power			
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Max.output apparent power	[kVA]	11.0	13.2	16.5	22.0
Max.output current	[A]	16.5	20.0	25.0	33.5
UPS switching time		<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE;220/380V;230/400V;240/415V			
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3%@Linear load			
Efficiency					
Max.efficiency		98.4%	98.4%	98.4%	98.4%
European efficiency		97.5%	97.5%	97.5%	97.5%
Protection					
DC reverse polarity protection		Integrated			
Battery input reverse connection protection		Integrated			
Insulation resistance protection		Integrated			
Surge protection		Integrated			
Over-temperature protection		Integrated			
Residual current protection		Integrated			
Islanding protection		Integrated			
AC over-voltage protection		Integrated			
Overload protection		Integrated			
AC short-circuit protection		Integrated			
General Data					
Over voltage category		PV:II Main:III			
Dimensions	[W×H×D mm]	534×418×210			
Weight	[KG]	28.0(10-12kW)/31.0(15-20kW)			
Protection degree		IP65			
Standby self-consumption	[W]	<15			
Topology		Transformerless			
Operating Temperature Range	[℃]	-30~60			
Relative Humidity	[%]	0~100			
Operating Altitude	[m]	3000 (>3000m derating)			
Cooling		Smart fan			
Noise Level	[dB]	<40			
Display		OLED & LED			
Communication		CAN,RS485,WiFi/LAN (Optional)			

High Voltage Three Phase Hybrid Inverter

VHT-30K/50K-100-H

30A
PV Input Current

100%
Unbalanced Output

100A
Charge/Discharge

Commercial | Three Phase | HV Battery | 4 MPPTS

Features

Maximized Energy Harvesting

- 110% unbalanced output enhances self-consunption
- 100A charging/discharging for efficiency energy transfer
- Continuous 110% AC overloading sustains power
- Starts at 135V for more generation time

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Engineered for Versatility

- Max.10 pcs parallel for on-grid operation and max.4 pcs parallel for off-gird operation
- 120% max backup @60s handles overloads
- IP65 protects both indoors and outdoors

Simplified Interaction

- Remote upgrades maintain system health
- OLED and App for easy control

Technical Specifications

Mode		VHT-30K-100-H	VHT-50K-100-H
PV Input			
Recommended Max.input power	[kW]	45.0	75.0
Start-up voltage	[V]	135	135
Max.DC input voltage*	[V]	1000*	1000*
Rated DC input voltage	[V]	620	620
MPPT voltage range*	[V]	200-850*	200-850*
No.of MPP trackers		4	4
No.of DC inputs per MPPT		2	2
Max.input current	[A]	30x4	30x4
Max.short-circuit current	[A]	40x4	40x4
Battery Side			
Battery type		Lithium Battery (with BMS)	
Battery voltage range	[V]	135-750	
Maximum charging/discharge current	[A]	100/100	
Grid Side			
Rated output power	[kw]	30.0	50.0
Max.output apparent power	[kVA]	33.0[1)]	55.0
Max.input apparent power**	[kVA]	36.0	60.0
Max.charging power of battery	[kW]	30.0	50.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V	
Rated AC frequency	[Hz]	50/60	50/60
Max.output current	[A]	50.0[2)]	83.0
Power factor		0.8 leading…0.8 lagging	
Max.total harmonic distortion		<3%@Rated output power	
DCI		<0.5%In	<0.5%In
Back-up Side			
Rated output power	[kW]	30.0	50.0
Max.output apparent power	[kVA]	33.0	55.0
Max.output current	[A]	50.0	83.0
UPS switching time		<20ms	<20ms
Rated output voltage		3L/N/PE;220/380V;230/400V;240/415V	
Rated output frequency	[Hz]	50/60	50/60
Voltage harmonic distortion		<3%@Linear load	
Generator Side			
Max.intput apparent power**	[kVA]	36.0	60.0
Max.charging power of battery	[kW]	30.0	50.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V	
Pated AC frequency	[Hz]	50/60	50/60
Efficiency			
Max.efficiency		98.8%	98.8%
European efficiency		98.3%	98.3%
Protection			
DC reverse polarity protection		Integrated	
Battery input reverse connection protection		Integrated	
Insulation resistance protection		Integrated	
Surge protection		Integrated	
Over-temperature protection		Integrated	
Residual current protection		Integrated	
Islanding protection		Integrated	
AC over-voltage protection		Integrated	
Overload protection		Integrated	
AC short-circuit protection		Integrated	
General Data			
Over voltage category		PV:II Main:III	
Dimensions	[W×H×D mm]	800×620×300	
Weight	[KG]	72.0	
Protection degree		IP65	
Standby self-consumption	[W]	<15	
Topology		Transformerless	
Operating Temperature Range	[°C]	-30~60	
Relative Humidity	[%]	0~100	
Operating Altitude	[m]	3000 (>3000m derating)	
Cooling		Smart fan	
Noise Level	[dB]	<50	
Display		OLED & LED	
Communication		CAN,RS485,WiFi/LAN (Optional)	

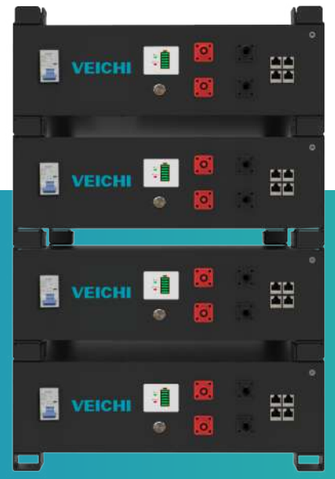
VCLB-5K-D01

Capacity

51.2V 100Ah Single module

Features

- **Unique Design**
  Rack mount
- **Flexible Capacity**
  Max.15pcs in Parallel to extend capacity
- **Safe &Reliable**
  Lithium Iron Phosphate (LFP) Cell
- **LED Display**
  SOC, Battery Status
- **Easy Installation**
  Quick plug in +/- and parallel connection
- **Certificates**
  CB , UN38.3, MSDS, CE EMC UL1973,UL9540A



Technical Specifications

Model	VCLB-5K-D01
Communication Instruction	
Nominal Voltage	51.2V
Rated Capacity	100Ah
Energy	5120Wh
Battery Impedance	≤50mΩ
Charging Cut-off Voltage	56.16V
Discharge Cut-off Voltage	45.6 V
Recommend Charge Current	0.5C 50A
Max Charge Current	0°C ~ 15°C: 20A; 15°C ~ 45°C: 50A
Max Continue Discharge Current	100A, -20°C~60°C ; 65±20%RH
Operating Temperature Range	-20~60℃
Storage Environment (50% state of charge)	20°C ~ 45°C in three months; 25±3°C over three months; Humidity:65±20%RH
Environment	Indoor
Installation	Rack Mount
Cell Technology	Lithium-iron phosphate (LiFePO4)
Life Cycle	6000 times @80%DOD
Cooling	Natural cooling
Protection Rating	IP20
Certificates	CB, IEC62619, UL1973, UL9540A, UKCA, CE-EMC,CE-GPSD,UN38.3, MSDS
Dimension and Weight	
Dimension	550*440*130mm(3U)
Battery Net Weight (Approx.)	47.2kg

VCLB-5K-W01

Capacity

51.2V 100Ah Single module

Features

- **Unique Design**
  New wall mount design
- **LED Display**
  SOC, Battery Status
- **Flexible Capacity**
  Max.15pcs in Parallel to extend capacity
- **Easy Installation**
  Quick plug in +/- and parallel connection
- **Safe &Reliable**
  Lithium Iron Phosphate (LFP) Cell
- **Certificates**
  CB , UN38.3, MSDS, CE EMC UL1973,UL9540A

Technical Specifications

Model	VCLB-5K-W01
General Specification	
Nominal Voltage	51.2V
Rated Capacity	100Ah
Energy	5120Wh
Battery Impedance	≤ 50 mΩ
Charging Cut-off Voltage	56.16 V
Discharge Cut-off Voltage	45.6 V
Recommend Charge Current	0.5C 50A
Max Charge Current	0℃ ~ 15℃: 20A; 15℃ ~ 45℃: 50A;
Max Continue Discharge Current	100 A, -20℃~60℃ ; 65±20%RH
Operating Temperature Range	-20~60℃
Storage Environment (50% state of charge)	20℃ ~ 45℃ in three months; 25±3℃ over three months; Humidity:65±20%RH
Environment	Indoor
Installation	Wall mounted/Floor stand
Cell Technology	Lithium-iron phosphate (LiFePO4)
Life Cycle	6000 times @80%DOD
Cooling	Natural convection
Protection Rating	IP65
Certificates	CB,IEC62619, UN38.3, MSDS CE-EMC, EN61000-6-1/2/3/4;CE-GPSD,EN62619
Dimension and Weight	
Dimension	520*470*141.5mm
Battery Net Weight (Approx.)	47.2KG
Communication Instruction	
RS232	Only for debugging, BMS can communicate with the host computer through the RS232 interface, so that various information of the battery can be monitored through the host computer, including battery voltage, current, temperature, status and battery production information, etc. The default baud rate is 9600bps.
CAN	For monitoring battery status, with isolated CAN communication, the default communication rate is 500K
RS485	RS485 is used in parallel, with dual RS485 interfaces, can view the PACK information, the default baud rate is 9600bps

VCLB-10K-W01

Capacity

51.2V 200Ah Single module

Features

- **Unique Design**
  New wall mount design
- **LED Display**
  SOC, Battery Status
- **Flexible Capacity**
  Max.15pcs in Parallel to extend capacity
- **Easy Installation**
  Quick plug in +/- and parallel connection
- **Safe &Reliable**
  Lithium Iron Phosphate (LFP) Cell
- **Certificates**
  CB , UN38.3, MSDS, CE EMC UL1973,UL9540A

VCLB-10K-W01
Rechargeable Lithium Ion Battery

Technical Specifications

Model	VCLB-10K-W01
General Specification	
Nominal Voltage	51.2V
Rated Capacity	200Ah
Energy	10240Wh
Battery Impedance	≤ 50 mΩ
Charging Cut-off Voltage	56.16 V
Discharge Cut-off Voltage	45.6 V
Recommend Charge Current	0.5C 100A
Max Charge Current	0℃ ~ 15℃: 40A; 15℃ ~ 45℃: 100A
Max Continue Discharge Current	200 A, -20℃~60℃ ; 65±20%RH
Operating Temperature Range	-20~60℃
Storage Environment (50% state of charge)	20℃ ~ 45℃ in three months; 25±3℃ over three months; Humidity:65±20%RH
Environment	Indoor
Installation	Wall mounted/Floor stand
Cell Technology	Lithium-iron phosphate (LiFePO4)
Life Cycle	6000 times @80%DOD
Cooling	Natural convection
Protection Rating	IP65
Certificates	CB , UN38.3, MSDS, CE EMC UL1973,UL9540A
Dimension and Weight	
Dimension	800*590*142mm
Battery Net Weight (Approx.)	96.5kg
Communication Instruction	
RS232	Only for debugging, BMS can communicate with the host computer through the RS232 interface, so that various information of the battery can be monitored through the host computer, including battery voltage, current, temperature, status and battery production information, etc. The default baud rate is 9600bps.
CAN	For monitoring battery status, with isolated CAN communication, the default communication rate is 500K
RS485	RS485 is used in parallel, with dual RS485 interfaces, can view the PACK information, the default baud rate is 9600bps

VCLB-15-BC

Features

● Longer Life and Safer

- REpower A+ grade lithium iron phosphate
- Battery management system with multi-level protection

Flexible and Expandable

- Up to 16 units in parallel, the system's energy capacity is up to 229kWh

Higher Energy Density

- The battery takes up less space and has an energy density of up to 166Wh per kilogram

● Easy to Install and Use

- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP

● Compliance

- UN38.3, MSDS, CE-ROHS, IEC-61000

Specification

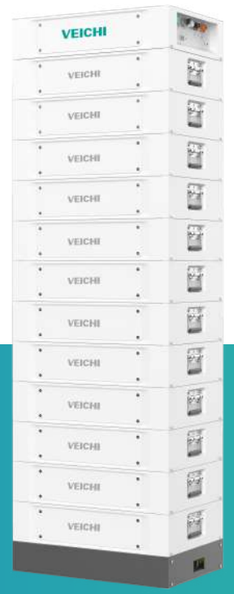
Model	VCLB-15-BC
Electrical Characteristics	
Nominal Voltage	51.2V
Nominal Capacity	280Ah
Energy	14,336Wh
Battery Chemistry	LithiumIron Phosphate (LFP)
Cycle Life	6,000 cycles@77°F (25°C), 0.5C/0.5C
Operating Voltage	46.4~57.6V
Communication Interfaces	CAN/RS485/RS232
Scalable	Up to 16 units
Expansion function	Aerosol heating (optional)/heating function (optional)/active equalization (optional)
Charge & Discharge	
Nominal Charge and Discharge	140A
MaximumCharge and Discharge	200A
Peak Discharge	250A/10min
Environmental	
Environment	Indoor
Charging Temperature	0°C to 55°C
Discharging Temperature	0°C to 60°C
Storage Temperature	-10°C to 45°C
Altitude	≤3,000m(9,843 ft)
Cooling Method	Natural Convection
IP Rating	IP65
Mechanical	
Dimension(L*W*D)	800*500*227mm
Weight	128.9kg
Installation	Wall mount or floor

High Voltage LFP Battery

VCHB-61.4K-STF

Features

- Up to 12 clusters in parallel, with a capacity of 15kWh~921kWh
- Intelligent fire extinguishing system detects and extinguishes fires within 5s
- Suitable for grid frequency regulation, charging stations, and other scenarios, enabling cost savings
- Wiring-free rackless stacking with plug-and-play design enables single-cluster installation in 30 min
- Rackless design reduces transport space by 50%+ and shipping costs by 50%.
- Built-in air duct design enables faster cooling and minimizes foreign object intrusion.



Specification

Model	VCHB-61.4K-STF						
Battery type	LiFePO4						
Module voltage/capacity	51.2V/100Ah						
Single module weight	PACK:47Kg BDU:22kg						
Number of Strings per Cluster	3~12						
Capacity	153.6V100Ah	358.4V100Ah	409.6V100Ah	460.8V100Ah	512V100Ah	563.2V100Ah	614.3V100Ah
Number oflayers	3 layers	7 layers	8 layers	9 layers	10 layers	11 layers	12 layers
Energy	15.36 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh	56.32 kWh	61.44 kWh
Operating voltage range	133.8V~172.8V	312.2V~403.2V	356.8V~460.8V	401.4V~518.4V	446V~576V	490.6V~633.6V	535.2V~691.2V
Dimension (L*W*H)mm	590*390*632	590*390*1164	590*390*1297	590*390*1430	590*390*1563	590*390*1696	590*390*1829
Weight(kg)	163.0	351.0	398.0	445.0	492.0	539.0	586.0
Recommended charge/discharge current	50A（0.5C）						
Max.charge/discharge current	100A（1C）						
Peak discharge current(2 min 25℃)	125A（1.25C）						
Depth of discharge	95%						
Communication	CAN/RS485						
Cycle life	≥8000 cycles / 10 years						
Single cluster dimension[W*D*H](mm)	590*390*（233+133*n），“n” stands for the number of battery modules						
Charging temp. range	0℃~55℃						
Discharging temp. range	-20℃~55℃						
Protection level	IP20						
Fire protection system	Aerosol fire extinguisher						
Installation method	Stack type						
Cooling method	Forced wind cooling						
WiFi module	Built-in WiFi module;APP OTA function						
Certification & Safety standard	CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3						
Compatible inverters	VEICHI/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles ect.						

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