

VEICHI

VEICHI

Power For Ever

VEICHI PRODUCT CATALOG

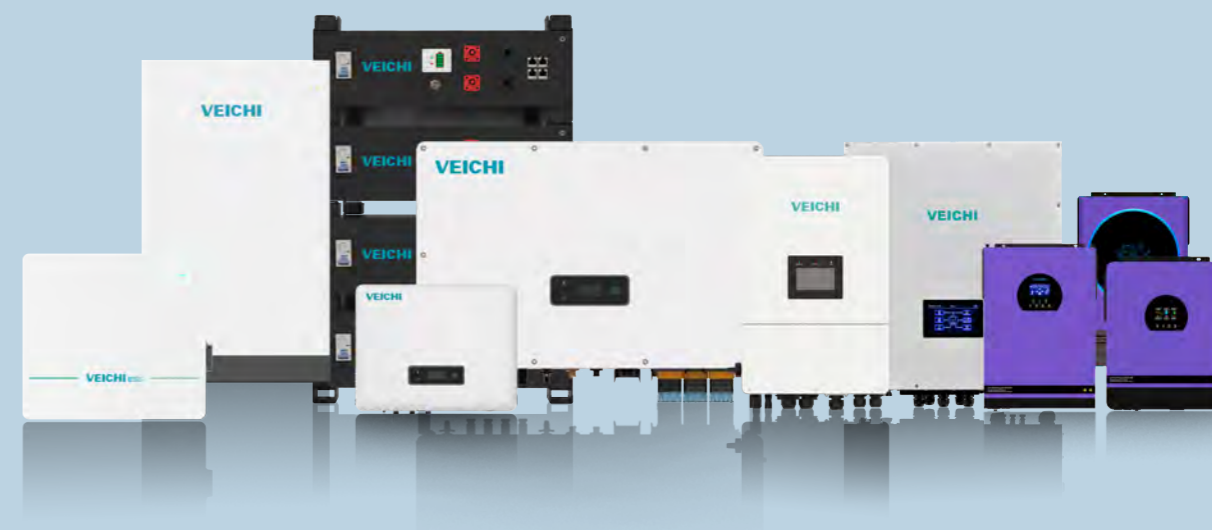
Empowering Energy Solutions

Smart

Flexible

Secure

Stable



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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

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

VHS-5K-L01-K
Off Grid/Hybrid Inverter



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 (°C)	-25~+60, >45°C 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

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 for various working conditions
- Built-in WiFi for mobile monitoring
- 150% unbalanced 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

VLT-12K-H/VLT-15K-H
Off Grid/Hybrid Inverter



Technical Specifications

Model	VLT-12K-H	VLT-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/Maximum 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		
Maximum 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	40VDC~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,DxWxH(mm)	255x660x750	255x660x750
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°C~60°C,>45°C power derating	-25°C~60°C,>45°C power derating

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-consumption
- 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

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



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 [WxHxD mm]	534x418x210		
Weight [KG]	26.0		
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	Natural Convection		
Noise Level [dB]	<25		
Display	OLED & LED		
Communication	CAN,RS485,WIFI/LAN (Optional)		

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-consumption
- 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

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



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 [WxHxD mm]	534x418x210			
Weight [KG]	28.0(10-12kW)/31.0(15-20kW)			
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]	<40			
Display	OLED & LED			
Communication	CAN,RS485,WiFi/LAN (Optional)			

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

Engineered for Versatility

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

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

Simplified Interaction

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

VHT-30K/50K-100-H Hybrid Inverter



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 [WxHxD mm]	800x620x300	
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)	

SIS-5K-H

Features

- Pure sine wave output
- Built-in MPPT solar charger
- Programmable supply priority for PV, Battery or Grid
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available) Supports USB on-the-go function
- Reserve BMS communication Parallel operation up to 9 units



SIS-5K-H
Off Grid/Hybrid Inverter

Technical Specifications

Model	SIS-5K-H
Rated Output Power	5000W
Grid-tie Operation	
PV Input(DC)	
Nominal DC Voltage/Maximum DC Voltage	360V DC/450V DC
Start-up Voltage/Initial Feeding Voltage	120V DC/150V DC
MPPT Voltage Range	120V DC~430V DC
Number of MPPT Trackers/Maximun Input Current	1/23A
Grid Output (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184~264.5 VAC or 195.5~253 VAC (Selectable)
Nominal Output Current	21.7A
Power Factor	>0.99
Efficiency	
Maximun Conversion Efficiency(DC/AC)	95%
Off-grid Operation	
AC Input	
AC Start-up Voltage/Auto Restart Voltage	120~140 VAC/180 VAC
Acceptable Input Voltage Range	90~280 VAC or 170~280 VAC
Frequency Range	50Hz/60Hz(Auto sensing)
Maximum AC Input Current	40A
PV Input (DC)	
Maximum DC Voltage	450V DC
MPPT Voltage Range	120VDC~430VDC
Number of MPPT Trackers/Maximum Input Current	1/27A
Battery Mode Output(AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
Hybrid Operation	
PV Input(DC)	
Nominal DC Voltage/Maximum DC Voltage	360VDC/450VDC
Start-up Voltage/Initial Feeding Voltage	120VDC/150VDC
MPPT Voltage Range	120VDC~430VDC
Number of MPPT Trackers/Maximum Input Current	1/27A
Grid Output(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184~264.5 VAC or 195.5~253 VAC (Selectable)
Nominal Output Current	21.7A
AC Input	
AC Start-up Voltage/Auto Restart Voltage	120~140 VAC/180VAC
Acceptable Input Voltage Range	90~280 VAC OR 170~280 VAC
Maximum AC Input Current	40A
Battery Mode Output(AC)	
Nominal Output Voltage	220/230/240VAC
Efficiency(DC TO AC)	93%
Battery & Charger	
Nominal DC Voltage	48 VDC
Maximum Charge Current	100A
Protection	
Over Temperature	Integrated
Battery Low	Integrated
Battery High	Integrated
Output Short Circuit	Integrated
Output Voltage too High	Integrated
Output Voltage too Low	Integrated
Bus Voltage High	Integrated
Bus Voltage Low	Integrated
PV Voltage is Over Limitation	Integrated
General	
Physical	
Dimension,DxWxH(mm)	140x295x468
Net Weight(kgs)	12
Interface	
Parallel Function	9 units
Communication Interface	USB/RS232/WIFI/Dry-contact
Environment	
Humidity	0%~90% relative humidity(Non-condensing)
Operating Temperature	-10°C~50°C

SIS4-1K-12-S

SIS4-1.5K-24-S



Features

- ◎ Pure sine wave solar inverter
- ◎ Built-in 40A MPPT solar charger
- ◎ PV input voltage range 20~150VDC(for 1000W),30~150VDC(for 1500W)
- ◎ Built-in anti-dust kit for harsh environment
- ◎ Smart battery charge design to optimize battery life
- ◎ Meet rich customized demands
- ◎ Solar energy is provided directly to the load first

SIS4-1K-12-S/SIS4-1.5K-12-S
Off Grid Solar Inverter

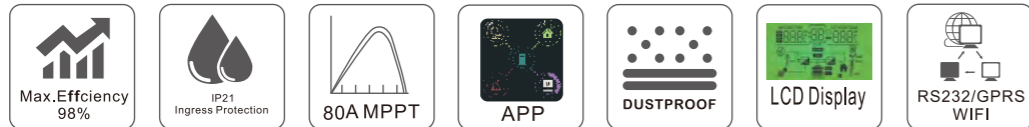


Technical Specifications

Model	SIS4-1K-12-S	SIS4-1.5K-24-S
Rated Power	1000W/1000VA	1500W/1500VA
AC Input	230V AC	
Selectable Voltage Range	170~280V AC (For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50Hz/60Hz(Auto sensing)	
AC Output	230V AC±5%	
Surge Power	2000VA	3000VA
Efficiency(Peak) PV TO INV	98%	
Efficiency(Peak) Battery TO INV	94%	
Transfer Time	10ms	
Battery		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	32VDC
Solar Charger & AC Charger		
Solar Charger Type	MPPT	
Maximum PV Array Power	600W	1200W
MPPT Range @ Operating Voltage	20~150VDC	30~150VDC
Maximum PV Array Open Circuit Voltage Solar	150VDC	
Maximum Solar Charging Current	40A	
Maximum AC Charging Current	40A	
Maximum Solar+AC Charging Current	80A	
Physical		
Dimension,D*W*H(mm)	290*240*91	
Cartoon Dimension,D*W*H(mm)	340*295*145	
Net Weight(kgs)	3.5	3.6
Gross Weight(kgs)	4.0	4.2
Environment		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C~50°C	
Standard		
Compliance Safety	CE	

SIS4-2K-12-S

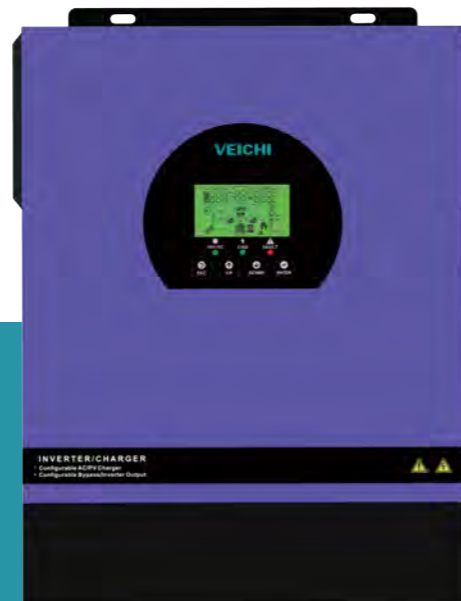
SIS4-3.2K-24-S



Features

- ◎ Pure sine wave solar inverter
- ◎ WIFI& GPRS available for IOS and Android
- ◎ Built-in 80A MPPT solar charger
- ◎ High PV input voltage range (30~400VDC)
- ◎ Built-in anti-dust kit for harsh environment
- ◎ Smart battery charge design to optimize battery life
- ◎ Meet rich customized demands
- ◎ Compatible with lithium battery
- ◎ Solar energy is provided directly to the load first

SIS4-2K-12-S/SIS4-3.2K-24-S
Off Grid Solar Inverter



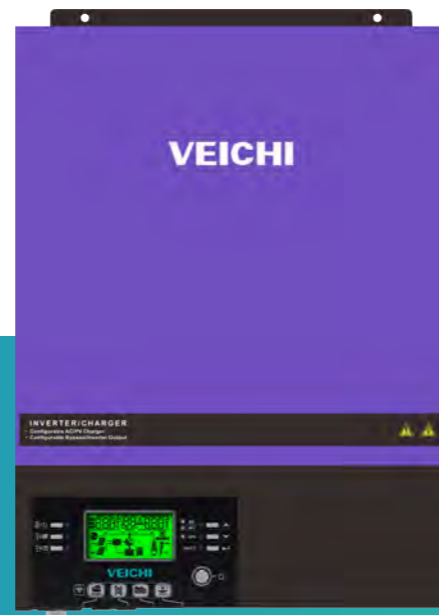
Technical Specifications

Model	SIS4-2K-12-S	SIS4-3.2K-24-S
Rated Power	2000W/1600W	3200VA/3000W
AC Input	230V AC	
Voltage	170~280V AC (For Personal Computers) 90~280VAC(For Home Appliances)	
Selectable Voltage Range	50Hz/60Hz(Auto sensing)	
Frequency Range	230V AC±5%	
AC Output	4000VA	6400VA
AC Voltage Regulation	98%	
Surge Power	94%	
Efficiency(Peak) PV TO INV	10ms(For Personal Computers);20ms(For Home Appliances)	
Efficiency(Peak) Battery TO INV	12VDC	
Transfer Time	13.5VDC	27VDC
Battery	16VDC	32VDC
Battery Voltage	MPPT	
Floating Charge Voltage	3000W	3000W
Overcharge Protection	30~400VDC	
Solar Charger & AC Charger	400VDC	
Solar Charger Type	1/13A	
Maximum PV Array Power	80A	
MPPT Range @ Operating Voltage	60A	
Maximum PV Array Open Circuit Voltage Solar	80A	
Max Input Current	80A	
Maximum Solar Charging Current	60A	
Maximum AC Charging Current	80A	
Maximum Solar+AC Charging Current	357*273*95	
Physical	435*335*165	
Dimension,D*W*H(mm)	4.6	4.8
Cartoon Dimension,D*W*H(mm)	5.6	5.8
Net Weight(kgs)	RS232/GPRS/WIFI	
Gross Weight(kgs)	5% to 95% Relative Humidity(Non-condensing)	
Communication Interface	-10°C~50°C	
Environment	Standard	
Humidity	Compliance Safety	
Operating Temperature	CE	
Standard		
Compliance Safety		

SIS-5K-48-S

Features

- Pure sine wave output
- Programmable supply priority
- Work with or without battery
- Convenient design & Installation
- Detachable LCD control module with various communications
- Integrated WiFi interface with Mobile App
- Supports USB On-the-Go function
- Reserved communication port(RS-485,CAN-BUS or RS-232) for BMS
- Battery equalization extends lifecycle
- Battery independency
- User-friendly LCD operation



SIS-5K-48-S
Off Grid/Hybrid Inverter

Technical Specifications

Model	SIS-5K-48-S
Rated Power	5000W
Input	
Voltage	230V AC
Selectable Voltage Range	/
Frequency Range	50Hz/60Hz(Auto sensing)
Output	
AC Voltage Regulation(Batt.Mode)	230V AC \pm 5%
Surge Power	10000VA
Efficiency(Peak)	90%~93%
Transfer Time	"15ms(For Personal Computers) 20ms(For Home Appliances)"
Waveform	Pure sine wave
Dual Outputs	Yes
Battery	
Battery Voltage	48V DC
Floating Charge Voltage	54V DC
Overcharge Protection	63V DC
Solar Charger & AC Charger	
Solar charger Type	MPPT
Maximum PV Array Power	5000W
MPPT Range & Operating Voltage	120~450 VDC
Maximum PV Array Open Circuit Voltage	500V DC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	100A
Maximum Charge Current	100A
Protection	
Over Temperature	Integrated
Battery Low	Integrated
Battery High	Integrated
Output Short Circuit	Integrated
Output Voltage too High	Integrated
Output Voltage too Low	Integrated
Bus Voltage High	Integrated
Bus Voltage Low	Integrated
PV Voltage is Over Limitation	Integrated
Physical	
Dimension , D×W×H (mm)	115*300*400
Net Weight (kgs)	10
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact
Operating Environment	
Humidity	5%~95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C~50°C
Storage Temperature	-15°C~60°C

SISV-4.2K-H-(TWIN) SISV-6.2K-H-(TWIN)

R INVERTER MODE **G** PV MODE **B** UTILITY MODE



Features

- ◎ Pure sine wave solar inverter
- ◎ Output power factor 1.0
- ◎ WIFI& GPRS available for IOS and Android
- ◎ Inverter can run without battery
- ◎ One-key restoration to factory settings
- ◎ Built-in lithium battery automatic activation
- ◎ High PV input voltage range (60~500VDC)
- ◎ Dual communication ports for battery communication and Wifi communication
- ◎ Built-in 120A MPPT solar charge: max 6200W(for 3.6kW/4.2kW), max 6500W(for 6.2kW)
- ◎ Built-in anti-dust kit for harsh environment
- ◎ Smart battery charge design to optimize battery life
- ◎ Dual output

**SISV-4.2K-H(TWIN)
SISV-6.2K-H(TWIN)
Off Grid Solar Inverter**



Technical Specifications

Model	SISV-4.2K-H-(TWIN)	SISV-6.2K-H-(TWIN)
Phase	1-phase	
Maximum PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	
Grid-tie Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
Grid Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	>0.99	
Efficiency		
Maximum Conversion Efficiency(DC/AC)	98%	
Two Load Output Power		
Full Load	4200W	6200W
Maxium Main Load	4200W	6200W
Maxium Second Load(battery Mode)	1400W	2067W
Maxium Load Cut Off Voltage	26VDC	52VDC
Maxium Load Return Voltage	27VDC	54VDC
Off-grid Operation		
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	59~61±1Hz	
Maxium AC Input Current	24.7A	36.4A
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
Battery Mode Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiecnycy(DC to AC)	94%	
Battery & Charger		
Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	
Maximum AC Charging Current	100A	
Maximum Solar+AC Charging Current	120A	
Hybrid Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
Grid Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
Maximum AC Charging Current	100A	
General		
Physical		
Dimension D*W*H(mm)	420*350*110	
Cartoon Dimension D*W*H(mm)	500*415*180	
Net Weight(kgs)	8.0	8.9
Gross Weight(kgs)	9.0	10.0
Interace		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
Environment		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C~50°C	
Standard		
Compliance Safety	CE	

Model

SISV-8.2K-H-(TWIN) SISV-10.2K-H-(TWIN)

R INVERTER MODE **G** PV MODE **B** UTILITY MODE



Features

- ⊙ Pure sine wave solar inverter
- ⊙ Output power factor 1.0
- ⊙ WIFI& GPRS available for IOS and Android
- ⊙ Inverter can run without battery
- ⊙ One-key restoration to factory settings
- ⊙ Built-in lithium battery automatic activation
- ⊙ Dual communication ports for battery communication and Wifi communication
- ⊙ Built-in 160A MPPT solar charge:max 6200W (for 3.6kW/4.2kW),max 6500W(for 6.2kW)
- ⊙ High PV input voltage range (90~500VDC)
- ⊙ Built-in anti-dust kit for harsh environment
- ⊙ Smart battery charge design to optimize battery life
- ⊙ Dual output
- ⊙ Dual PV input
- ⊙ Touch button
- ⊙ On off grid work mode

**SISV-8.2K-H-(TWIN)
SISV-10.2K-H-(TWIN)
Off Grid Solar Inverter**



Technical Specifications

Model	SISV-8.2K-H-(TWIN)	SISV-10.2K-H-(TWIN)
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	
Grid-tie Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	2/18A	
Grid Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
Efficiency		
Maximum Conversion Efficiency(DC/AC)	98%	
Two Load Output Power		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery Mode)	2733W	3400W
Maximum Load Cut Off Voltage	52VDC	
Maximum Load Return Voltage	54VDC	
Off-grid Operation		
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	59~61±1Hz	
Maximum AC Input Current	48.2A	60A
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	2/18A	
Battery Mode Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
Battery & Charger		
Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Solar+AC Charging Current	160A	
Hybrid Operation		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	2/18A	
Grid Output(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
AC Input		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	48.2A	60A
Maximum AC Charging Current	140A	
General		
Physical		
Dimension D*W*H(mm)	530*390*130	
Cartoon Dimension D*W*H(mm)	618*463*205	
Net Weight(kgs)	14.2	14.7
Gross Weight(kgs)	15.7	16.2
Interface		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
Environment		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C~50°C	
Standard		
Compliance Safety	CE	

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

VCLB-5K-D01
Rechargeable Lithium Ion Battery



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°C
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
- **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

VCLB-5K-W01
Rechargeable Lithium Ion Battery



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°C ~ 15°C: 20A; 15°C ~ 45°C: 50A;
Max Continue Discharge Current	100 A, -20°C~60°C ; 65±20%RH
Operating Temperature Range	-20~60°C
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	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-GPSSD,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

- **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

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°C ~ 15°C: 40A; 15°C ~ 45°C: 100A
Max Continue Discharge Current	200 A, -20°C~60°C ; 65±20%RH
Operating Temperature Range	-20~60°C
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	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

VCHB-2.5K-ST

Features

- High-voltage LiFePO4 battery solution, Single module is 51.2V/50Ah/2.56kWh.
- 3 to 10 layers recommended.
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle and Power.
- Applicable on grid or hybrid on and off-Grid solar energy storage system.
- Self-Consumption Optimization for Residential and Commercial Applications.
- Modular Design Simplifies Transport and Installation.



VCHB-2.5K-ST
Residential LFP Battery Series

Specification

Model	VCHB-2.5K-ST							
Capacity	153.6V50Ah	204.8V50Ah	256V50Ah	307.2V50Ah	358.4V50Ah	409.6V50Ah	460.8V50Ah	512V50Ah
Number of layers	3layers	4layers	5layers	6layers	7layers	8layers	9layers	10layers
Energy	7.68KWh	10.24KWh	12.8KWh	15.36KWh	17.92KWh	20.48KWh	23.04KWh	25.6KWh
Operating Voltage Range	134.4V~168.48V	179.2V~224.64V	224V~280.8V	268.8V~336.96V	313.6V~393.12V	358.4~449.28V	403.2V~505.44V	448V~561.6V
Dimension (L*W*H)mm	600*210*870	600*210*1030	600*210*1190	600*210*1350	600*210*1510	600*210*1670	600*210*1830	600*210*1990
Weight(KG)	102.5	129	155.5	182	208.5	235	261.5	288
Recommend charge current	25A							
Max continue charge current	50A							
Max continue discharge current	50A							
Peakcurrent	100A/1s							
Display	TheinformationofBattery,suchasSOC,batteryvoltageandsoon							
Communication	SupportRS485/CAN							
Maximum parallel support	4clusters(3to10unitspercluster)							
Charging temperature	0°C ~ 55°C							
Discharge temperature	-20°C ~ 60°C							
Environment	Indoor							
Relativehumidity	5% ~ 95%							
Cooling	Naturalconvection							
Celltechnology	Lithium-ironphosphate(LiFePO4)							
ProtectionRating	IP65							
Lifecycle	6000times@80%DOD							
Certificates	CB,IEC62619,CE-EMC,CE-GPDS,UKCA,UL1973,UL9540A,IEC/EN62040;UN38.3,MSDS							
Single module Technical Specification								
Module	51.2V50Ah,2.56kWh							
Dimension(L*W*H)mm	High Voltage BDU:600*210*250 Battery Pack:600*210*160							
Weight(KG)	HighVoltageBox:14BatteryBox:28							

VCHB-36~56K-L (F)

Features

- Single cluster 11 parallel, Max. parallel 12 clusters.
- Suitable for multi-module installation
- High system efficiency
- Supports up to 95% DOD

VCHB-36~56K-L (F)
High Voltage Lithium Battery



Technical Specifications

Model	VCHB-35K-358-L	VCHB-56K-563-L	VCHB-40K-409-L(F)	VCHB-56K-563-L(F)
System data				
Battery Module Type	Lithium Iron Phosphate(LiFePO4)			
Battery Module Quantity	7 units	11 units	8 units	11 units
Nominal Battery Energy	35.84kWh	56.32kWh	40.96kWh	56.32kWh
Nominal Capacity	100Ah	100Ah	100Ah	100Ah
Nominal Voltage	358.4V	563.2V	409.6V	563.2V
Operating Vol.Range	313.6~403.2V	492.8~633.6V	358.4~460.8V	492.8~633.6V
Nominal Power Output	21.5kW	33.79kW	40.96kW	56.32kW
Max.Power Output	35.84kW	56.32kW	40.96kW	56.32kW
Recommend Charge/Discharge Current	50A	50A	100A	100A
Max. Discharging Current	60A	60A	100A	100A
Net Weight(W*D*H)	397.5kg	646.5kg	501kg	642kg
Rack System Control Unit Type	548*568*1412mm	548*568*2012mm	594*558*1663mm	594*558*2152mm
Module Quantity and Configuration	BDU-60	BDU-60	BDU-100F	BDU-100F
Operation Environment				
Charging Temp.Range	0~55°C	0~55°C	0~55°C	0~55°C
Discharging Temp.Range	-10~55°C	-10~55°C	-10~55°C	-10~55°C
Communication Interface				
Communication	CAN	CAN	CAN/RS485	CAN/RS485
General Data				
Cycle Life	>6000 Cycles	>6000 Cycles	>6000 Cycles	>6000 Cycles
Protection Level	IP20	IP20	IP20	IP20