



PRODUCT CATALOG-2025

- Household energy storage
- Solar Inverter
- Solar controller

SHENZHEN VAMI TECHNOLOGY CO., LTD

ADD: Tongxin Industrial Park, FuyongStreet, Bao'an District, Shenzhen,Guangdong, China
TEL: +48 792 043 865 / +86 139 2510 1626
E-mail:info@vami-tek.com

www.vami-tek.com

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Company Profile:

Vision: To become a globally influential leader in renewable energy.

Mission: To provide efficient green energy solutions for society, promoting sustainable development.

Values:

Value Creation: Enhancing customer value through innovation and efficiency.

Innovation: Continuously researching and developing to drive technological advancement.

Striving: Proactively seeking challenges and self-improvement.

Co-creation and Sharing: Collaborating with partners and society for mutual growth and win-win outcomes.

Shenzhen Vami Technology Co., Ltd. boasts over 15 years of experience in solar product design, specializing in an integrated approach to research, production, and sales. Our product line includes high-efficiency inverters, MPPT charger, Lithium battery and intelligent energy management systems, widely used in residential, commercial, and industrial applications.

Our company is equipped with automated production lines, significantly enhancing production efficiency and product quality. We implement advanced manufacturing technologies and rigorous quality control measures to ensure that every product meets international standards. Our commitment to optimizing production processes allows us to deliver cost-effective green energy solutions to our customers.

We look forward to partnering with you to create a sustainable future and drive the global adoption of renewable energy solutions.

GLOBAL SERVICE CENTERS

Shenzhen Headquarters

+86 13925101626

Tongxin Industrial Park, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China.

info@vami-tek.com

Czech Office

+420 602 124 965

Hrbitovni 1479/25, 312 00 Plzen, Czech Republic, Contact person, Jan Vavra

Europe@Vami-tek.com

Germany Office

+49 1715501939

Werner-von-Siemens-Straße 2, 64319 Pfungstadt, Germany

Europe@Vami-tek.com

Myanmar Office

+95 9424426912

209 Parami Rd, Yangon, Myanmar

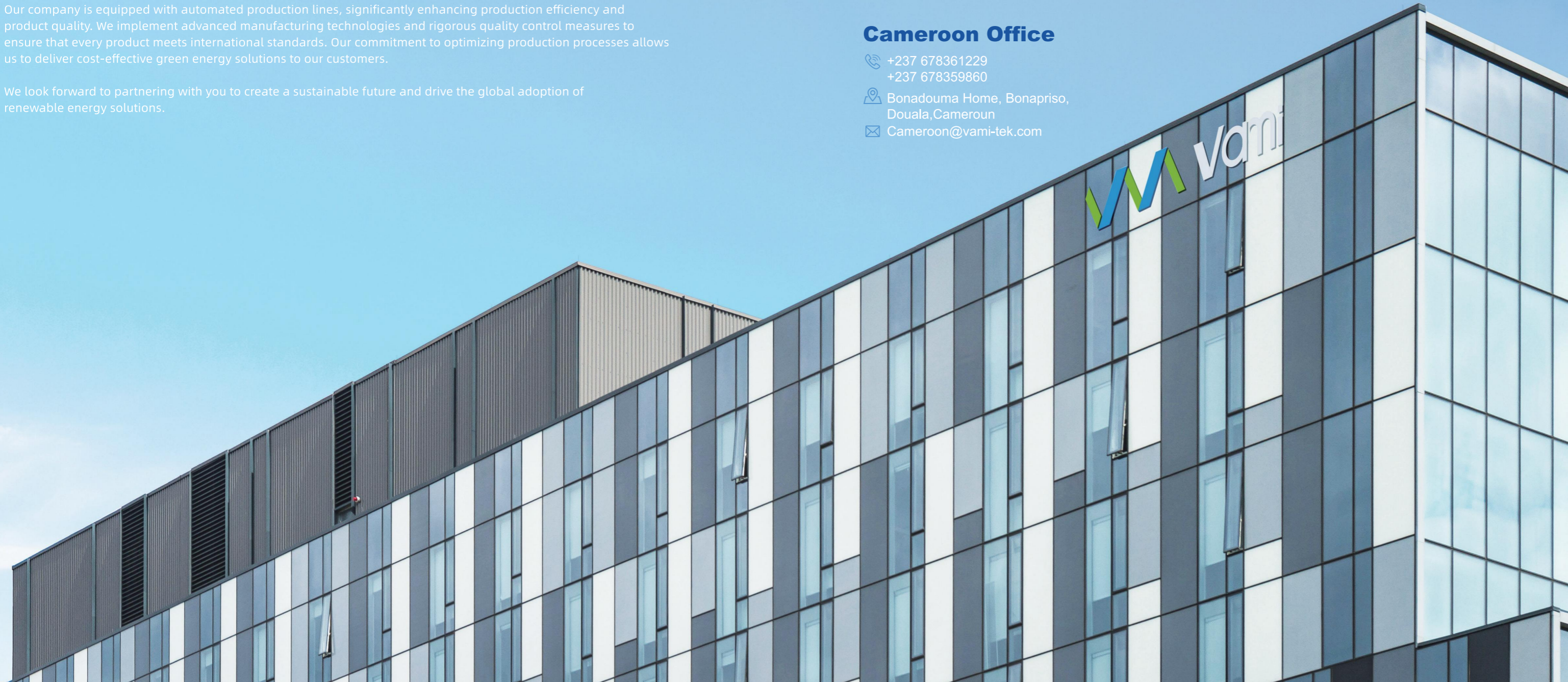
Myanmar@vami-tek.com

Cameroon Office

+237 678361229
+237 678359860

Bonadouma Home, Bonapriso, Douala, Cameroun

Cameroon@vami-tek.com





VMIW - SERIES
48V/6600VA-8600VA

Features



High-Efficiency Power Generation

- Maximum Conversion Efficiency: 97.6%
- MPPT Voltage Range:85-450Vdc
- Dual MPPT18A+18A
- PV Input Max.:12KW
- MAX PV Input voltage: 500Vdc



Intelligent Operation and Maintenance

- Intelligent dual AC output, compatible with Generator
- Intelligent terminal management, real-time control of system data
- Support OTA remote upgrade and setup, low operation and maintenance cost.



Safe and Reliable

- IP65 Protection Rating, Reliable Quality
- 6-Year Warranty, Use with More Confidence



User-friendly

- Colorful touchscreen
- Compact and lightweight design, easy to install
- Compatible with various batteries, flexible storage options

Items		VMIW-6.6K48L1	VMIW-8.6K48L1
PV (DC Input)	Recommended max. PV input power	13200W(6600W+6600W)	
	Max.input voltage(Voc)	500Vdc	
	MPPT operating voltage range	85-450Vdc	
	Number of MPPT	2	
	Max.input current per MPPT	18A	
	Max.short-circuit current per MPPT	27A	
Grid (AC Input)	Max input power	11500W	
	Max input current	50A	
	Rated grid voltage	230Vac	
	Rated grid frequency	50/60Hz	
	Acceptable voltage range	90Vac-280Vac(For appliances);170Vac -280Vac(For UPS)	
Battery Parameters (Bidirection)	Battery type	Lead-acid or Lithium-ion	
	Battery voltage range	40-60Vdc	
	Rated Battery Voltage	48 Vdc	
	Max.charge/discharge current	135A/135A	160A/160A
	BMS communication mode	RS485; CAN	
Back-up Output (AC output)	Rated output power	6600W / 6600VA (Twin output)	8600W / 8600VA (Twin output)
	Rated output current	28.7A	37.4A
	Rated output voltage / Frequency	220/230/240V (L,N,PE) 50Hz / 60Hz	
	Parallel capacity	12	
	Surge power	2 times of rated power, 5s	
	THDv (@ linear load)	< 3%	
	Switching time	10ms(typical) UPS mode 20ms(typical) Application mode 20ms(typical) Generator mode	
Efficiency	Peak efficiency	97.6%	
	Max.MPPT efficiency	>99%	
Protection	Inner protection	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring, DC Switch	
	Surge protection	TYPE III(DC), TYPE III(AC)	
	IP rating	IP65	
General Parameters	Operating temperature range	-40 to +60°C, >45°C Derating	
	Relative humidity range	0-100%	
	Max.operating altitude	3000m	
	Standby self-consumption	<10W	
	Installation type	Wall-mounted	
	Cooling mode	Intelligent Air Cooling	
	Communication	RS485;CAN;WI-FI;dry port	
Mechanical Specifications	Display	LCD	
	Inverter dimensions (L*W*H)	379*451*135MM	
	Net weight	12.7kg	13.7kg
	Carton dimensions (L*W*H)	481*564*223MM	
	Gross weight	15.8kg	16.8kg
Warranty Period	6 years		



VMIO - SERIES
48V/15000VA

Features



High-Efficiency Power Generation

- Maximum Conversion Efficiency: 97.6%
- Wide MPPT Voltage Range: 85-450Vdc
- Dual MPPT 36A+36A
- PV input MAX.:24KW



Intelligent Operation and Maintenance

- Intelligent standby, more worry about power consumption
- Intelligent terminal management, real-time control of system data
- Support OTA remote upgrade and setup, low operation and maintenance cost.



Safe and Reliable

- IP54 Protection Rating, Reliable Quality
- 3-year Warranty, Use with More Confidence



User-friendly

- Wide-angle LCD display
- Compact and lightweight design, easy to install
- Compatible with various batteries, flexible storage options

	More worry	VMIO-15K48L1	VMIO-15K48L2 -US
PV (DC Input)	Recommended max. PV input power	24000W/(12000W+12000W)	24000W/(12000W+12000W)
	Max. input voltage(Voc)	500Vdc	500Vdc
	MPPT operating voltage range	85-450Vdc	85-450Vdc
	Number of MPPT	2	2
	No. of Strings per MPPT Tracker	2	2
	Max. input current per MPPT	36A+36A	36A+36A
	Max. short-circuit current per MPPT	54A	54A
Grid (AC Input)	Max input power	27600W	28800W
	Max input current	120A	120A
	Rated grid voltage	230Vac	120/240Vac(Split phase)
	Rated grid frequency	50/60Hz	50/60Hz
	Acceptable range	10ms typical(For UPS), 20ms typical(For appliances)	10ms typical(For UPS), 20ms typical(For appliances)
Battery Parameters (Bidirection)	Battery type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
	Battery voltage range	42-60Vdc	42-60Vdc
	Rated Battery Voltage	48 Vdc	48 Vdc
	Max. charge/discharge current	250A/270A	250A/270A
	BMS communication mode	RS485: CAN	RS485: CAN
Back-up Output (AC output)	Rated output power	15000W / 15000VA (Twin output)	15000W / 15000VA (Twin output)
	Rated output current	65.2A	62.5A
	Rated output voltage / Frequency	220/230/240V(L,N,PE) 50Hz / 60Hz	120/240V(L1,L2,N,PE) 60Hz
	Parallel capacity	12	12
	Surge power	2 times of rated power, 5s	2 times of rated power, 5s
	THDv (@ linear load)	< 3%	< 3%
	Switching time	10ms(typical) UPS mode 20ms(typical) Application mode 20ms(typical) Generator mode	10ms(typical) UPS mode 20ms(typical) Application mode 20ms(typical) Generator mode
	Efficiency	Peak efficiency: 97.6% Max. MPPT efficiency: >99%	Peak efficiency: 97.6% Max. MPPT efficiency: >99%
Protection	Inner protection	AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Reverse Polarity Protection, AC Output Overcurrent Protection, DC Component Monitoring, Thermal Protection, Arc Fault Circuit Interrupter(optional), Insulation Impedance Detection	AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Reverse Polarity Protection, AC Output Overcurrent Protection, DC Component Monitoring, Thermal Protection, Arc Fault Circuit Interrupter(optional), Insulation Impedance Detection
	Surge protection	TYPE III(DC), TYPE III(AC)	TYPE III(DC), TYPE III(AC)
	IP rating	IP54	IP54
General Parameters	Operating temperature range	-40 to +60°C, >45°C Derating	-40 to +60°C, >45°C Derating
	Relative humidity range	0-100%	0-100%
	Max. operating altitude	3000m	3000m
	Standby self-consumption	<20W	<20W
	Installation type	Wall-mounted	Wall-mounted
	Cooling mode	Fan Cooling	Fan Cooling
	Communication	RS485;CAN;Wi-Fi;dry port	RS485;CAN;Wi-Fi;dry port
Mechanical Specifications	Display	LCD	LCD
	Inverter dimensions (L*W*H)	665*515*135MM	785*585*135MM
	Net weight	31kg	42kg
	Carton dimensions (L*W*H)	760*610*233MM	880*680*233MM
	Gross weight	35.5kg	47kg
	Warranty Period	3 years	3 years

VMIO - SERIES
24V-48V/3600VA-6000VA



Features



High-Efficiency Power Generation

- High-Efficiency Power Generation
- Maximum Conversion Efficiency: 99.5%
- Wide MPPT Voltage Range: 60V-450V
- Up to 27A High Current Charging per Branch



Intelligent Operation and Maintenance

- User-friendly
- Wide-angle LCD display
- Compact and lightweight design, easy to install
- Compatible with various batteries, flexible storage options



Safe and Reliable

- Safe and Reliable
- IP54 Protection Rating, Reliable Quality
- 3-Year Warranty, Use with More Confidence



User-friendly

- Intelligent Operation and Maintenance
- Intelligent standby, more worry about power consumption
- Intelligent terminal management, real-time control of system data
- Support OTA remote upgrade and setup, low operation and maintenance cost.

Items	VMIO-3.6K24L1-II	VMIO-6K48L1-II	
PV (DC Input)	Recommended max. PV input power	5000W	9000W
	Max. input voltage(Voc)	500	500V
	MPPT operating voltage range	40V-450V	60V-450V
	Number of MPPT	1	1
	Max. number of input strings per MPPT	1	1
	Max. input current per MPPT	18A	27 A
	Max. short-circuit current per MPPT	21.6 A	35 A
Grid (AC Input)	Max input power	4600 W	9200 W
	Max input current	20A	40 A
	Rated grid voltage	208/220/230/240V (L,N,PE)	208/220/230/240V (L,N,PE)
	Rated grid frequency	50/60Hz	50/60Hz
Battery Parameters (Bidirection)	Acceptable range	170-264Vac (for UPS) 90-280Vac (for home application)	170-264Vac (for UPS) 90-280Vac (for home application)
	Battery type	LiFePO ₄ / Lead-acid	LiFePO ₄ / Lead-acid
	Battery voltage range	20-30Vdc	40-60 Vdc
	Rated Battery Voltage	24Vdc	48 Vdc
	Max. charge/discharge current	100A/160A	120A / 130A
Back-up Output (AC output)	BMS communication mode	RS485;CAN	RS485; CAN
	Rated output power	3600W/3600VA	6000W / 6000VA (Twin output)
	Rated output current	15.6A	26A
	Rated output voltage / Frequency	208/220/230/240V (L,N,PE) 50/60Hz	208/220/230/240V (L,N,PE) 50/60Hz
	Surge power	1min@102%~120% load, 10s >120% load	1min@102%~120% load, 10s >120% load
	THDv (@ linear load)	< 3%	< 3%
Efficiency	Switching time	10ms(typical) UPS mode 20ms(typical) Application mode 60ms(typical) Generator mode	10ms(typical) UPS mode 20ms(typical) Application mode 20ms(typical) Generator mode
	Peak efficiency	92.00%	94%
Protection	Max. MPPT efficiency	99.50%	99.50%
	Inner protection	√Output short-circuit protection √Output overvoltage protection	√Output short-circuit protection √Output overvoltage protection
	Surge protection	CLASS I	CLASS I
General Parameters	IP rating	IP54	IP54
	Operating temperature range	-10°C~+60°C	-10°C~+60°C
	Relative humidity range	5%~95%	5%~95%
	Max. operating altitude	>2000m derating	>2000m derating
	Standby self-consumption	<65W	<30 W
	Installation type	Wall-mounted	Wall-mounted
	Cooling mode	Fan cooling	Fan cooling
Mechanical Specifications	Communication	RS485;CAN; WI-FI;Dry contact	RS485;CAN; WI-FI
	Display	LCD	LCD
	Inverter dimensions (L*W*H)	430*298*100MM	430*340*115 MM
	Net weight	7KG	8.9KG
	Carton dimensions (L*W*H)	540*353*186 MM	545*409*196 MM
	Gross weight	7.9KG	10.3KG
Warranty Period	3 years	3 years	



VMDC - SERIES

48V/5000VA

Features



High-Efficiency Power Generation

- Dual MPPT input, MPPT Maximum efficiency: 99.9%
- Wide MPPT voltage range:100V-600V
- Maximum charging current:100A
- Multi functions: DC coupler, DC converter, HV charge controller,



Safe and Reliable

- IP65 Protection Rating, Reliable Quality
- 5-Year Warranty, Use with More Confidence



User-friendly

- Intelligent noise reduction mode, enjoy quiet moments
- Compact and lightweight design, easy to install
- Compatible with various battery brands and on-grid inverter brands
- Equipped with 4.3-inch touch color screen, more comprehensive display content



Intelligent Operation and Maintenance

- Intelligent terminal management, real-time control of system data
- Support OTA remote upgrade and setup, low operation and maintenance cost.

MODEL	VMDC-5K48
Battery parameters	
Cells type	LiFePO4
Voltage[V]	40-60
Max. charge current[A]	100
Max. discharge current[A]	100
Working temperature	-10~55 °C
Storage temperature	-15~60 °C
DC output parameters	
Rated output power[W&VA]	5000
Rated output voltage[Vdc]	260-480
Max. output current[A]	20
PV input parameters	
Rated input Power[W]	5000*2
Max. input voltage[Voc]	600
MPPT operation range[V]	120~580(@120V start up)
No. of MPPT Trackers	2
No. of Strings per MPPT Tracker	1
Max. input current[A]	15
Max. short-circuit current per MPPT[A]	18
Other parameters	
Peak Efficiency	>96%
Max. MPPT efficiency	>99.9%
Surge protection	PV: Type II
IP rating	IP65
General parameters	
Relative humidity range	5%~95%
Max. operation altitude	<2000m
Standby self-consumption	<10W
Installation type	Wall-mounted
Cooling mode	Fan cooling
Communication	RS232/WI -FI/RS485
Dimension (W*H*D, mm)	380*350*155
Weight Approximate(kg)	13
Warranty period	5 years

VMCC - SERIES

12V-48V/540W-6400W



Features



Safe and Reliable

- Electrically isolated communication
- Temperature, current and voltage protection
- PV input port Type 3 lightning protection



User Friendly

- 12V/24V/48V automatic identification, flexible and convenient
- Highly integrated, saving installation space
- Simple screen display, easy to operate
- Natural cooling, absolutely quiet and no noise



Higher efficiency

- MPPT efficiency up to 99%
- Ultra-wide input range for easy system configuration
- Supports a wide range of lead-acid and lithium batteries

MODEL	VMCC4524	VMCC4548	VMCC6048	VMCC8048	VMCC10048	VMCC12048	
Charging Mode	MPPT Automatic Maximum Power Point Tracking						
Charging Method	Three stages: Constant Current (MPPT), Absorption Charging, Floating Charge						
System Type	12V/24V (Auto detection)		12V/24V/48V (Auto detection)				
System Identification Voltage Range	12V	DC9V-DC15V					
	24V	DC18V-DC30V					
	48V	/	DC36V-DC60V				
Soft Start Time	≤10s						
Dynamic Response Recovery Time	≤500us						
Static Power	≤2W						
Max. Conversion Efficiency	≥96.5%						
Tracking Efficiency	≥99%						
Protection Degree	IP20						
Cooling Method	Natural Cooling						
Input Features							
MPPT Operating Voltage Range	12V	DC25V-DC100V	DC25V-DC150V	DC25V-DC200V			
	24V	DC30V-DC100V	DC30V-DC150V	DC30V-DC200V			
	48V	/	DC60V-DC150V	DC60V-DC200V			
Maximum Solar Panel Input Power	12V	625W	625W	825W	1100W	1375W	1650W
	24V	1200W	1200W	1650W	2200W	2750W	3300W
	48V	/	2400W	3300W	4400W	5500W	6600W
Output Features							
Optional Battery Type	Lead-acid Battery, Gel Battery, Lithium Battery, User-defined						
Max. Charge Current	12V/24V/48V	45	45A	60A	80A	100A	120A
Over Charge Current		46	46A	61A	82A	103A	123A
Communication	RS485, RS232						
PV Module Configuration	Battery	PV module load voltage (Recommended Value)					
	12V	18V-60V (30V module*1 string, 36V module*1 string)					
	24V	36V-72V (30V module*2 string, 36V module*2 string)					
	48V	/	72V-144V (30V module*3 string, 36V module*3 string)				
Operating Ambient Temperature	-20~+55°C						
Storage Temperature	-25~+55°C						
Dimensions(W*H*D)	12V/24V/48V	133*205*76 mm	133*205*76 mm	163*280*96 mm	163*280*96 mm	203*283*96 mm	203*283*96 mm
Weight		1.6 kg	1.6 kg	3.5 kg	3.5 kg	5.7kg	5.7kg
Compliance Safety	CE						

VMBF - SERIES

51.2V-300/314/560AH



Features



High-Efficiency Power Generation

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+(times).
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



User-friendly

- Supports floor , saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content



Safe and Reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service

Model	VMBF-51300	VMBF-51314	VMBF-51560
Main Parameter			
Battery Chemistry	LiFePO4		
Capacity (Ah)	300	314	560
Scalability	Max. 16 pcs pack in parallel		
Nominal Voltage (V)	51.2		
Operating Voltage(V)	43.2~57.6		
Nominal Energy (kWh)	15.36	16.08	28.67
Usable Energy (kWh) [1]	13.82	14.47	25.80
Charge/Discharge Current (A) [2]	Recommend	150	200
	Max.	200	250
	Peak(2mins,25 °C)	250	250
Other Parameter			
Recommend Depth of Discharge	80%		
Dimension(W*H*D, mm)	530*840*255	530*840*255	570*990*250
Weight Approximate(kg)	125	127	180
IP Rating of Enclosure	IP20		
Operating Temperature	Charge: 0~55°C Discharge: -20°C~60°C		
Storage Temperature	0~40°C		
Humidity	5%~95%		
Altitude	≤2000m		
Cycle Life	≥6000(25 °C±2°C,0.5C/0.5C,80%DOD,70%EOL)		
Installation	Floor-Mounted		
Communication Port	CAN2.0,RS485		
Warranty Period [3]	10 years		
Certification	UN38.3, IEC62619, CE		

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.



VMBF - SERIES

25.6V-300/314/560AH

Features



High-Efficiency Power Generation

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+(times).
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



Safe and Reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service



User-friendly

- Supports floor , saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content

Model	VMBF-25300	VMBF-25314	VMBF-25560
Main Parameter			
Battery Chemistry	LiFePO4		
Capacity (Ah)	300	314	560
Scalability	Max. 16 pcs pack in parallel		
Nominal Voltage (V)	25.6		
Operating Voltage(V)	21.6~28.8		
Nominal Energy (kWh)	7.68	8.04	14.34
Usable Energy (kWh) [1]	6.91	7.23	12.90
Charge/Discharge Current (A) [2]	Recommend	150	200
	Max.	200	250
	Peak(2mins,25 °C)	250	250
Other Parameter			
Recommend Depth of Discharge	80%		
Dimension(W*H*D, mm)	425*630*255	425*630*255	570*640*250
Weight Approximate(kg)	65	68	98
IP Rating of Enclosure	IP20		
Operating Temperature	Charge: 0~55°C Discharge: -20°C~60°C		
Storage Temperature	0~40°C		
Humidity	5%~95%		
Altitude	≤2000m		
Cycle Life	≥6000(25°C±2 °C,0.5C/0.5C,80%DOD,70%EOL)		
Installation	Floor-Mounted		
Communication Port	CAN2.0,RS485		
Warranty Period [3]	10 years		
Certification	UN38.3, IEC62619, CE		

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.



VMBW-SERIES

51.2V-100/200/230AH



Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ (times).
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



Safe and reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service



User Friendly

- Plug-in wiring for easy installation
- Supports floor and wall mounting, saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content

Model	VMBW-51100	VMBW-51200	VMBW-51230
Main Parameter			
Battery Chemistry	LiFePO4		
Capacity (Ah)	100	200	230
Scalability	Max. 16 pcs pack in parallel		
Nominal Voltage (V)	51.2		
Operating Voltage(V)	43.2~57.6		
Nominal Energy (kWh)	5.12	10.24	11.78
Usable Energy (kWh) [1]	4.61	9.21	10.60
Charge/Discharge Current (A) [2]	Recommend	60	120
	Max.	100	200
	Peak(2mins,25°C)	150	250
Other Parameter			
Recommend Depth of Discharge	80%		
Dimension(W*H*D, mm)	410*665*160	550*815*160	425*745*250
Weight Approximate(kg)	48	95	105
IP Rating of Enclosure	IP20		
Operating Temperature	Charge: 0~55°C Discharge: -20°C~60°C		
Storage Temperature	0~40°C		
Humidity	5%~95%		
Altitude	≤2000m		
Cycle Life	≥6000(25°C±2°C ,0.5C/0.5C,80%DOD,70%EOL)		
Installation	Wall - Mounted, Floor - Mounted		
Communication Port	CAN2.0,RS485		
Warranty Period [3]	10 years		
Certification	UN38.3, IEC62619, CE		

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.

VMBW - SERIES

25.6V-200/230AH



Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ (times).
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



User-friendly

- Supports floor and wall mounting, saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content



Safe and reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service

Model	VMBW-25200	VMBW-25230
Main Parameter		
Battery Chemistry	LiFePO4	
Capacity (Ah)	200	230
Scalability	Max. 16 pcs pack in parallel	
Nominal Voltage (V)	25.6	
Operating Voltage(V)	21.6~28.8	
Nominal Energy (kWh)	5.12	5.89
Usable Energy (kWh) [1]	4.61	5.30
Charge/Discharge Current (A) [2]	Recommend	120
	Max.	200
	Peak(2mins,25 °C)	250
Other Parameter		
Recommend Depth of Discharge	80%	
Dimension(W*H*D, mm)	515*560*160	350*560*250
Weight Approximate(kg)	45	48
IP Rating of Enclosure	IP20	
Operating Temperature	Charge: 0~55°C Discharge: -20°C~60°C	
Storage Temperature	0~40°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C,0.5C/0.5C,80%DOD,70%EOL)	
Installation	Wall Mounted, Floor -Mounted	
Communication Port	CAN2.0,RS485	
Warranty Period [3]	10 years	
Energy	UN38.3, IEC62619, CE	

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.



Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ (times).
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



Safe and reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service



User Friendly

- Plug-in wiring for easy installation
- Supports floor mounting, rack mounting and wall mounting, saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content

Model	VMBR51100	
Main Parameter		
Battery Chemistry	LiFePO4	
Capacity (Ah)	100	
Scalability	Max. 16 pcs pack in parallel	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Nominal Energy (kWh)	5.12	
Usable Energy (kWh) [1]	4.61	
Charge/Discharge Current (A) [2]	Recommend	60
	Max.	100
	Peak(2mins,25°C)	150
Other Parameter		
Recommend Depth of Discharge	80%	
Dimension(W*H*D, mm)	440*133*590	
Weight Approximate(kg)	46	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge: 0~55°C Discharge: -20°C~60°C	
Storage Temperature	0~40°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C ,0.5C/0.5C,80%DOD,70%EOL)	
Installation	Rack-Mounted, Floor - Mounted,Wall- Mounted	
Communication Port	CAN2.0,RS485	
Warranty Period [3]	10 years	
Energy	UN38.3, IEC62619, CE	

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.



VMBH - SERIES

20 ~ 51 kWh

Features



Innovative architecture, equipped with a dual-layer active equalisation system at the cell level and module level. It can realise charge/discharge management for each cell, so that all the cells are always in the same state as the system.



It eliminates the loss of energy efficiency caused by a certain pack/cell aged or limited, improves the energy efficiency of charging and discharging, and enhances the cycle life of the battery system.



When a module or cell is not consistent with the system, it will actively intervene to regulate the whole battery system to achieve full charging and discharging.



The built-in intelligent extinguish bag fitted in every battery pack can be triggered in time in case of temperature, thus eliminating the fire in the initial state.

Model	VMBH -100							
Electrical Parameters								
	T3	T4	T5	T6	T7	T8	T9	T10
NO.Of Series Battery	3	4	5	6	7	8	9	10
Rated Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Usable Energy (kWh)	13.8	18.4	23	27.6	32.2	36.8	41.4	46
Rated Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512
Voltage Range (V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8	403.2~518.4	448~576
Battery Type	Li-ion (LFP)							
Battery pack series and parallel connection	1P*16S							
Rated Capacity(Ah)	100							
Charge Current(A)	50A (Rated) /100A (Maximum)							
Discharge Current (A)	50A (Rated) /100A (Maximum)							
Cycle Times	80% DOD, >10000 times, Remaining capacity >60%							
Communication	RS-485 / RS-232 / CAN 2.0							
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit							
Weight (kg)	154.4	199.8	245.2	290.6	336	381.4	426.8	472.2
Dimension [W x D x H, mm]	630*365*674	630*365*813	630*365*952	630*365*1091	630*365*1230	630*365*1369	630*365*1508	630*365*1647
Working Conditions								
Installation	Indoor							
Working temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C							
Optimum working temperature	20°C~30°C							
Storage temperature	20°C~30°C							
Humidity	5%-95% (No condensation)							
Altitude	≤2000m							
Enclosure protection rating	IP54							
Cooling	Natural cooling							
Certificate	CE, UN38.3, MSDS							

Information may be subject to change without notice during product improving



VMBH - SERIES
53~131 kWh

Features



Innovative architecture, equipped with a dual-layer active equalisation system at the cell level and module level. It can realise charge/discharge management for each cell, so that all the cells are always in the same state as the system.



It eliminates the loss of energy efficiency caused by a certain pack/cell aged or limited, improves the energy efficiency of charging and discharging, and enhances the cycle life of the battery system.

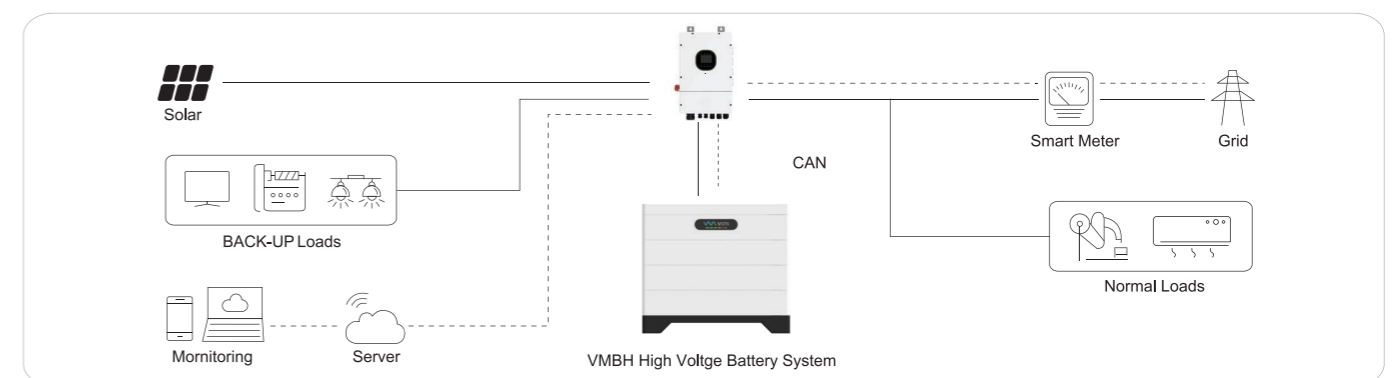


When a module or cell is not consistent with the system, it will actively intervene to regulate the whole battery system to achieve full charging and discharging.



The built-in intelligent extinguish bag fitted in every battery pack can be triggered in time in case of temperature, thus eliminating the fire in the initial state.

Model	VMBH-200					
Electrical Parameters						
	T7	T9	T11	T13	T15	T17
NO. Of Series Battery	7	9	11	13	15	17
Rated Energy (kwh)	53.7	69.1	84.4	99.8	115.2	130.5
Usable Energy (kwh)	48.3	62.2	76	89.8	103.6	117.6
Rated Voltage (V)	268.8	345.6	422.4	499.2	576	652.8
Voltage Range (V)	235.2~302.4	302.4~388.8	369.6~475.2	436.8~561.7	504~648	571.2~734.4
Battery Type	Li-ion (LFP)					
Rated Capacity(Ah)	200Ah					
Charge Current(A)	100A (Rated)					
Discharge Current (A)	100A (Rated)					
Cycle Times	80% DOD, >10000 times, Remaining capacity >60%					
Communication	RS-485 / RS-232 / CAN 2.0 re/Over current /Short circuit					
Protection function	Over voltage / Under voltage / Over temperature / Low temperature re/Over current /Short circuit					
Dimension [W x D x H, mm]	820*801.5*716	820*801.5*855	820*801.5*994	820*801.5*1133	820*801.5*1274	820*801.5*1413
Working Conditions						
Installation conditions	Indoor					
Range of working temperature	Charge: 0°C~55°C Discharge: -20°C~55°C					
Optimal working temperature range	20°C~30°C					
Storage temperature	20°C~55°C					
Working humidity	5%-95% (No condensation)					
Altitude	≤2000m					
Protection degree	IP54					
Cooling method	Natural cooling					
Certificate	CE, UN38.3, MSDS					



CHS2 - SERIES

1000V/2999VA-55000VA



Features



Higher efficiency

- 6MPPTs, 200% PV oversizing
- Intelligent coordination of greenenergy and DG, reducing fossilfuel consumption



User Friendly

- AC & DC coupling
- VPP ready
- On/Off-Grid Switching, Micro-grid, Agrivoltaic+ESS System



Safe and reliable

- Utilizing solar and ESS, ALL-IN-ONE design simplifies installation steps

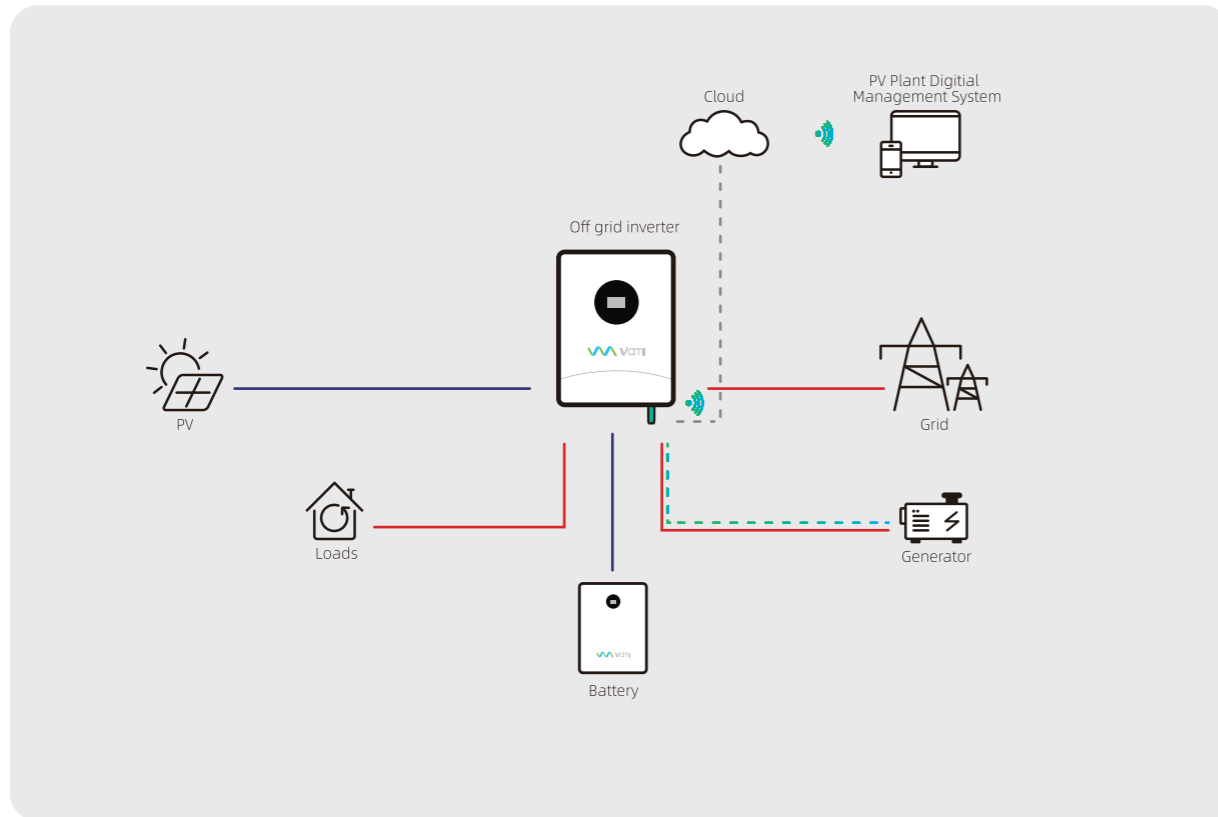


User Friendly

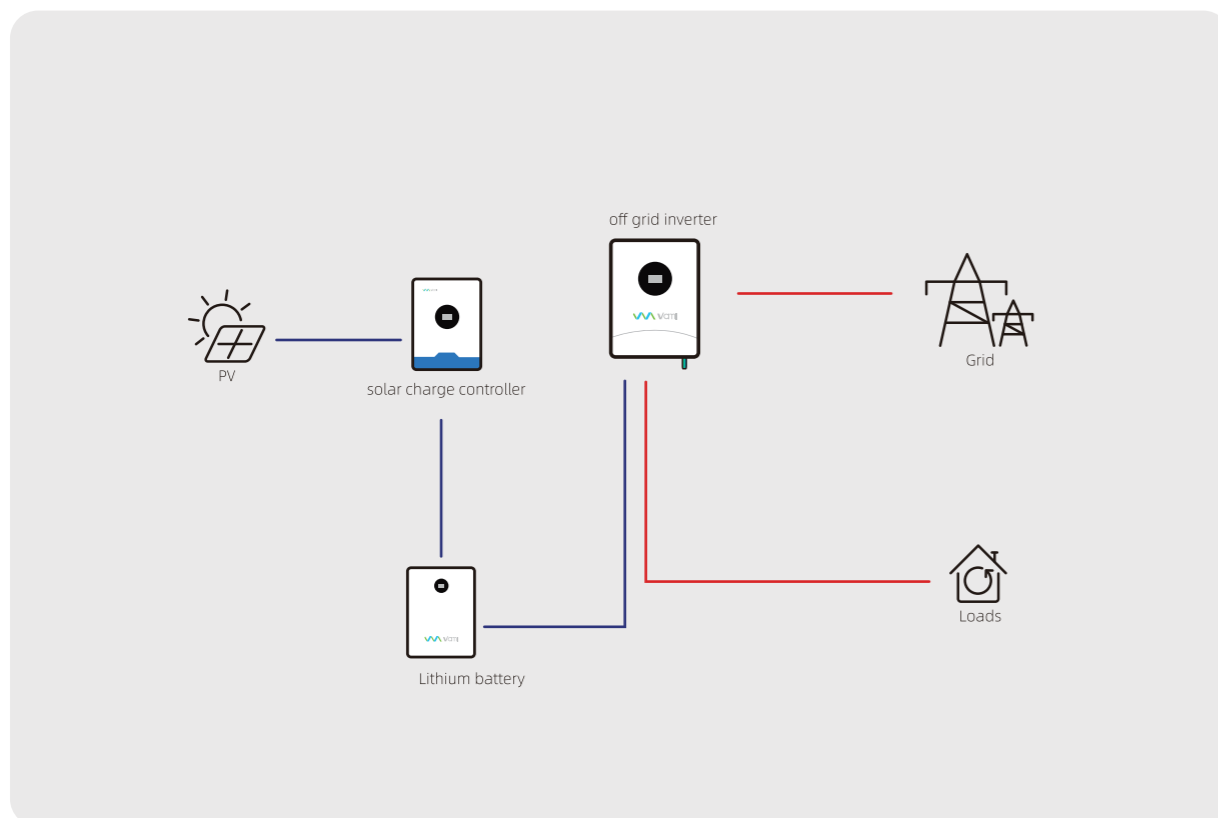
- Up to 10 pcs parallel connection
- Battery capacity: 57kWh-2MWh

MODEL	CHS2-29.9K-T4-X-P	CHS2-30K-T4-X-P	CHS2-40K-T5-X-P	CHS2-50K-T6-X-P
DC Input				
Max. PV Array Power [Wp]@STC	59998	60000	80000	100000
Max. DC Voltage [V]	1000			
MPPT Voltage Range [V]	180 ~ 850			
Rated DC Voltage [V]	600			
Start Voltage [V]	200			
Max. DC Input Current [A]	4*45	4*45	5*45	6*45
Max. DC input current of a single string [A]	22.5			
Max. DC Short Circuit Current [A]	4*55	4*55	5*55	6*55
Number of Strings per MPPT	2			
Battery Parameters				
Battery Type	LiFePO4			
Rated Energy [kWh]	57.3 - 100.3			
Battery Voltage Range [V]	179.2 - 403.2			
Max. Charging/Discharging	140			
AC Output [On-grid]				
Rated AC Power [W]	29999	30000	40000	50000
Max. Apparent Power [VA]	29999	33000	44000	55000
Rated Output Current [A]@230Vac	43.3	43.5	58.0	72.5
Max. AC Output Current to Utility Grid [A]	43.3	47.9	63.8	79.8
Current Inrush[A]	192			
Max. AC Fault Current[A]	182.6			
Max. AC Over Current Protection[A]	86.6	87	116	145
Rated AC Voltage [V]	3+N+PE,380/ 400			
Rated Output Frequency/Range [Hz]	50, 45 - 55			
Power Factor [cos φ]	0i - 1 - 0c			
Total Harmonic Distortion [THDi]	<3%			
AC Input [On-grid]				
Rated AC Voltage [V]	3+N+PE, 380/400			
Rated Input Frequency [Hz]	50, 60			
Max. Input Current [A]	200			
AC Input [Generator]				
Max. Input Current [A]@230V	200			
Rated Input Voltage [v]	3+N+PE, 380/400			
Rated Input Frequency/Range [Hz]	50, 45 - 55			
AC Output [Back-up]				
Max. Apparent Power [VA]	29999	33000	44000	55000
Peak Output Apparent Power [VA]	29999	45000,5s	60000,5s	75000,5s
Rated AC Voltage [V]	3+N+PE, 380/400			
Rated Output Frequency/Range [Hz]	50, 45 - 55			
Output THDv (@ Linear Load)	<3%			
Efficiency				
Max. Efficiency	≥98.0%			
Euro Efficiency	97.3%			
Max. Battery to AC Efficiency	96.0%			
Protection				
PV String Current Monitoring	Integrated			
PV Insulation Resistance Detection	ntegrated			
Residual Current Monitoring	Integrated			
PV Reverse Polarity Protection	Integrated			
Anti-islanding Protection	AFD			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC switch	Integrated			
DC Surge Protection	II			
AC Surge Protection	II			
AFCI	Integrated			
RSD	Optional			
General Parameters				
Communication	Wi-Fi/Ethernet/RS485			
Topology	Non-isolated			
Operating Temperature Range	-30°C to +50°C (45°C to 50°C with derating)			
Cooling Method	Air Conditioner			
Ambient Humidity	0-100% Non-condensing			
Altitude	2000m			
Ingress Protection	IP55, IP66(Inverter)			
Dimensions [H*W*D] [mm]	1980*988*1065			
Weight [kg]	1035(57.3kWh)/1145(71.6kWh)/1255(85.9kWh)/1365(100.3kWh)			
Warranty [Year]	5/10			
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0-21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1,EN61000-6-2,EN61000-6-3, EN61000-6-4			

Residential Off-Grid Solar System



Residential Off-Grid Solar System



24KW system | Lagos, Nigeria 



6KW system | Patteya, Thailand 



15KWH system | Baghdad Iraq 



6KW system | Lagos, Nigeria 



6KW system | Yangon, myanmar 