



PRODUCT CATALOG-2025

- Household energy storage
- Solar Inverter
- solar controller



SHENZHEN VAMI TECHNOLOGY CO., LTD

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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.





VMIO - SERIES
24V-48V/4000VA-12000VA

Features



High-Efficiency Power Generation

- Maximum Conversion Efficiency (99.9%)
- Wide MPPT Voltage Range (85V~450V)
- Up to 27A High Current Charging per Branch
- Up to 12 Parallel Systems, Flexible Expansion



Intelligent Operation and Maintenance

- Intelligent standby load and generator interface, 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
- Super Overload Capability (200%/5S)
- 3 Year Warranty, Use with More Confidence



User-friendly

- Touch buttons, wide-angle LCD display
- Intelligent noise reduction mode, enjoy quiet moments
- Compact and lightweight design, easy to install
- Compatible with various batteries, flexible storage options

MODEL	VMIO-4K24L1	VMIO-6K48L1	VMIO-12K48L1
Rated Power	4000W/4000VA	6000W/6000VA	12000W/12000VA
BATTERY			
Battery Type	Lead-acid/Lithium		
Rated Voltage	24V	48V	48V
Voltage Range	20~30V	40~60V	40~60V
Max. Charge Current	120A	120A	210A
Max. Discharge Current	160A	130A	230A
BMS Communication	RS485		
AC INPUT			
Rated Voltage	220/230/240Vac (L/N/PE)		
Rated Frequency	50/60Hz		
Bypass Current	28A	50A	90A
Input Voltage Range	170~280(for UPS), 90~280(for home appliances)		
AC OUTPUT			
Rated Output Power	4000W/4000VA	6000W/6000VA	12000W/12000VA
Rated Output Voltage	220/230/240Vac (L/N/PE)		
Rated Output Frequency	50/60Hz		
ParallelCapacity	-	Max. 12 units	Max. 12 units
Surge Power	8000VA 5s	12000VA 5s	24000VA 5s
THDV(@ linearload)	<3%		
SwitchTime	10ms typical(For UPS), 20ms typical(For appliances)		
PV INPUT			
Rated Input Power	6000W	8000W	16000W
Max. Input Voltage(Voc)	500V	500V	500V
MPPT Operation Range	85~450V(@85V start up)	85~450V(@75V start up)	85~450V(@75V start up)
No. of MPPT Trackers	1	1	2
No. of Stringsper MPPT Tracker	1	1	1
Max. Input Current	15A	27A	27A
Max. Short-circuitCurrent per MPPT	18A	35A	35A
OTHERS			
Peak Efficiency	>95%	>98%	>98%
Max. MPPT efficiency	>99.9%	>99.9%	>99.9%
Surge Protection	PV: Type III, AC: Type III		
ProtectionDegree	IP54		
Compliance Safety	CE		
GENERAL			
Operation Temperature Range	-10~+55°C		
Relative Humidity Range	5%~95%		
Max. Operation Altitude	>2000m derating		
Standby Self-consumption	<10W	<10W	<20W
Installation Type	Wall-mounted		
CoolingMode	Fan cooling		
Communication	RS232/RS485/Dryport/WI-FI(optional)		
Inverter Dimensions(L*W*H)	444.7*346.6*120 mm	444.7*346.6*120 mm	630*535*125 mm
Net Shipping Dimensions(L*W*H)	560*465*240 mm	560*465*240 mm	745*650*240 mm
Weight	9.2 kg	12.4 kg	27 kg
Gross Weight	11.4 kg	14.6 kg	30 kg
Warranty Period	3 years		



Features



High-Efficiency Power Generation

- Dual MPPT input, MPPT Maximum efficiency: 99.9%
- wide MPPT voltage range:100V-500V
- Maximum charging current:100A
- Multi functions: DC coupler, DC converter, HV charge controller,



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



Safe and Reliable

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



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]	550
MPPT operation range[V]	120~500(@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)	385*355*155
Weight Approximate(kg)	18
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		VMCC-4524	VMCC-4048	VMCC-6048	VMCC-8048	VMCC-10048	VMCC-12048
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	12VDC25V-DC100VDC25V-DC150V			DC25V-DC200V			
	24VDC	30V-DC100VDC30V-DC150V		DC30V-DC200V			
	48V	/	DC60V-DC150V	DC60V-DC200V			
Maximum Solar Panel Input Power	12V	625W	570W	825W	1100W	1375W	1650W
	24V	1200W	1130W	1650W	2200w	2750W	3300W
	48V	/	2270W	3300W	4400W	5500W	6600W
Output Features							
Optional Battery Type	12V/24V/48V	Lead-acid Battery, Gel Battery, Lithium Battery, User-defined					
Max. Charge Current		45	40A	60A	80A	100A	120A
Over Charge Current		46	41A	61A	82A	103A	123A
Communicasion		RS485,RS232					
Py 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	12V/24V/48V	-20~+55°C					
Storage Temperature		-25~+55°C					
Dimensions(W*H*D)		141*203*80 mm	141*203*80 mm	163*283*98mm	163*283*98 mm	203*283*98 mm	203*283*98mm
Weight		2.1 kg	2.1 kg	4.1 kg	4.1 kg	5.7kg	5.7kg
Compliance Safety	CE						



VMBW- SERIES

51.2V-100/200/230AH

Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ .
- 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	11.78	15.36
Usable Energy (kWh) [1]	4.61	10.60	13.82
Charge/Discharge Current (A) [2]	Recommend	60	120
	Max.	100	200
	Peak(2mins,25°C)	150	250
Other Parameter			
Recommend Depth of Discharge	0.9		
Dimension(W*H*D, mm)	415*665*160	550*815*160	425*745*250
Weight Approximate(kg)	48	88	92
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,90%DOD,70%EOL)		
Installation	Wall - Mounted, Floor - Mounted		
CommunicationPort	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+ .
- 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		0.9	
Dimension(W*H*D, mm)		550*515*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,90%DOD,70%EOL)	
Installation		Wall-Mounted, Floor-Mounted	
CommunicationPort		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



High-Efficiency Power Generation

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ .
- 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)	11.78	16.08	28.67
Usable Energy (kWh) [1]	10.6	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	0.9		
Dimension(W*H*D, mm)	530*742*255	530*742*255	570*920*250
Weight Approximate(kg)	120	124	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,90%DOD,70%EOL)		
Installation	Floor-Mounted		
CommunicationPort	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.



Features



High-Efficiency Power Generation

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ .
- 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-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	0.9		
Dimension(W*H*D, mm)	425*560*255	425*560*255	570*570*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,90%DOD,70%EOL)		
Installation	Floor-Mounted		
CommunicationPort	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.



Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ years.
- 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		0.9
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,90%DOD,70%EOL)
Installation		Rack-Mounted, Floor - Mounted,Wall- Mounted
CommunicationPort		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.

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

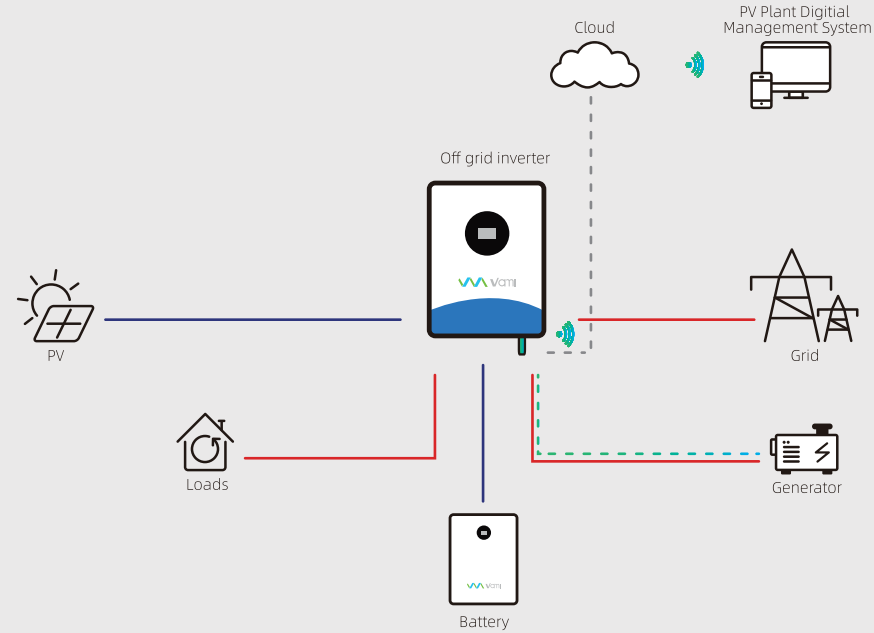


User Friendly

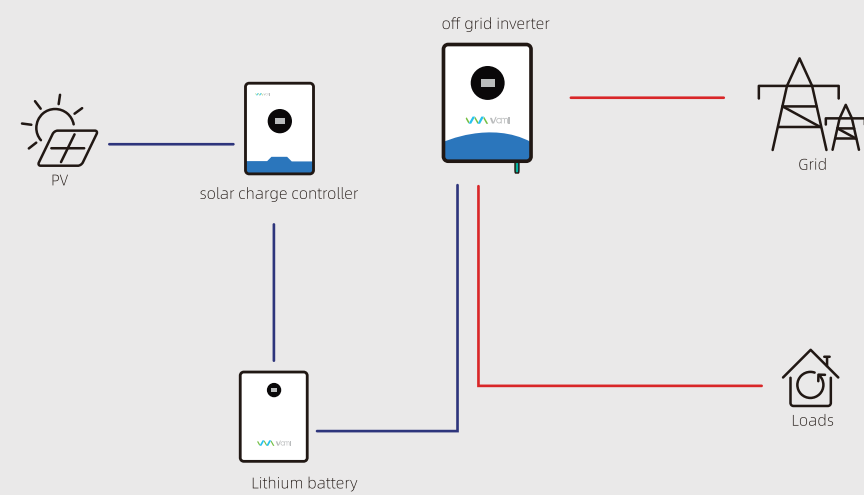
- Up to 10 pcs parallel connection
- Battery capacity: 57kWh-2MWh

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



Yangon, Myanmar



100kwh/home energy storage



Patteya, Thailand



100kwh/home energy storage

Lagos, Nigeria



100kwh/home energy storage



New York, USA Case



100kwh/home energy storage