

Residential Energy Storage Solution








Company Introduction

With registered capital of CNY 668,030,956, Guangzhou Shiyuan Electronic Technology Co., Ltd. (Hereinafter referred to as “CVTE”) has become a China Top 500 Manufacturing Enterprise (2022) and listed High-technology company (Stock Code: 002841) since its foundation in 2005, with headquarter in Guangzhou, China.

Since its establishment, the company has always focused on the field of artificial intelligence, life science, health care, future education and online meeting systems, etc. and it has made a great achievement by publishing its first two self-owned brands, Seewo (a provider of educational informatization application tools and services) and MAXHUB (an intelligent collaboration platform).

By the end of 2022, it has over 6,000 employees and 60% of them are R&D staffs, with average age as 30. As of 2022, the revenue of CVTE is CNY 20.99 Billion, increased 21.98% compared to the same period of 2021.

 80+ Countries and areas covered	 80+ Million PCBA sold and delivered	 7 Industrial Parks Total area - 339,988 m ²
 6000+ Employees	 3000+ Software and works copyrights	 8000+ Granted patents

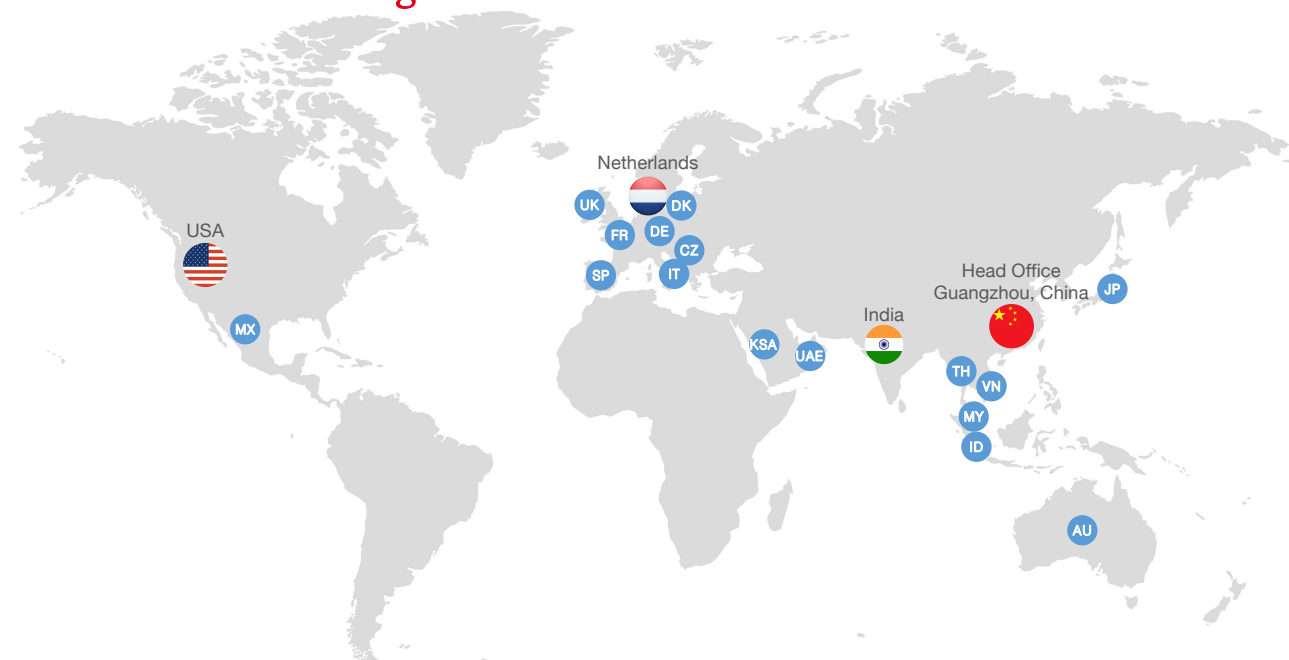


Intro

Adhered to market demand-oriented, technological innovation as the power source of enterprise development, and cultivated a professional R&D team with rich R&D experience and strong independent innovation ability, CVTE has expanded its business scope into solar field since 2019 by establishing a new subsidiary, Guangzhou Shixiao Technology Co.,Ltd.

In the future, Guangzhou Shixiao Technology Co.,Ltd., will adhere to the mission of "shining the world with green power", based on the new energy equipment business, accelerate the development of clean energy system integration, innovate and expand new businesses in the field of clean power conversion technology, continue to be close to customer needs, actively participate in global competition, and strive to build the company into a trustworthy green energy products and solutions provider.

CVTE Market Coverage



- **3** Global subsidiaries
UAK, KSA, Thailand, Indonesia coming soon...
- Local team in **16** countries
- **80+** Countries and areas covered

Data as of December 31, 2022

Single Phase Off-grid Inverter

MAXHUB



FN3K5S-CH1



Built-in 100A
Solar Charger

BMS

Support Lithium/
Lead-acid Battery



Wide MPPT
Range 40-500V



Lithium Battery
Activation



Workable with
Generator



Detachable
Dust Cover

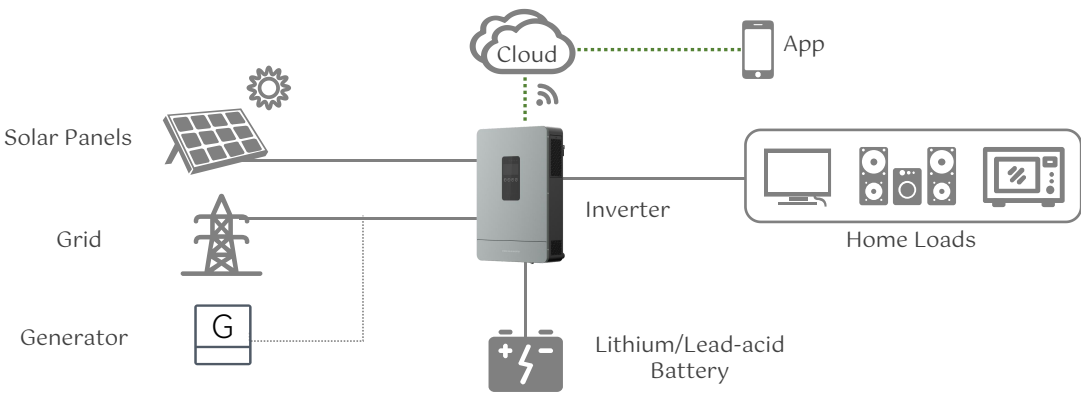


Complete CE
Certificate



WiFi
Monitoring

System Diagram



Specifications

Model	FN3K5S-CH1
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	3.5
Surge Power (kVA)	4.6
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	31
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10℃ ~ 50℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃ ~ 60℃
Net Weight (kg)	8
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Single Phase Off-grid Inverter

MAXHUB



FN3KS-CH1



Built-in 120A
Solar Charger

BMS

Support Lithium/
Lead-acid Battery



Wide MPPT
Range 120-500V



Lithium Battery
Activation



Workable with
Generator



Detachable
Dust Cover

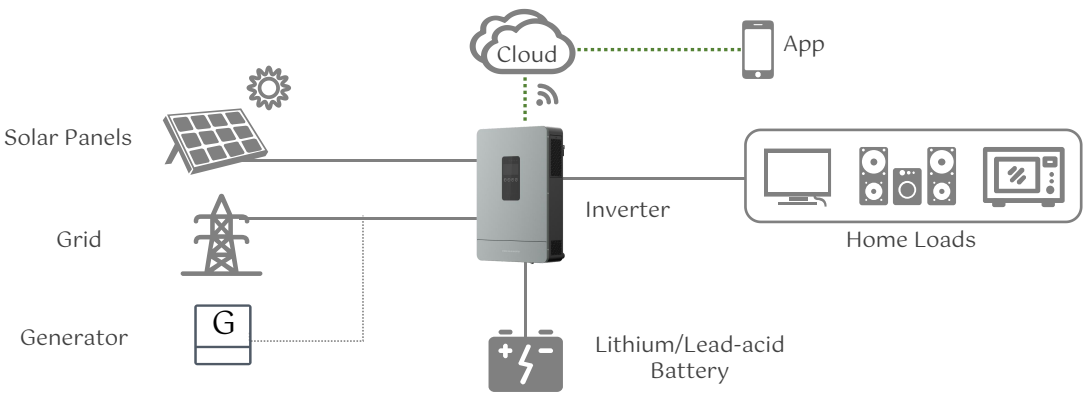
DUAL

Dual
AC Output



WiFi
Monitoring

System Diagram



Specifications

Model	FN3KS-CH1
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	3
Surge Power (kVA)	6
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	12A / 4000W
MPPT Range@Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (Only PV or AC) (A)	120
Battery	
Normal Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	31
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10℃ ~ 50℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃ ~ 60℃
Net Weight (kg)	9
Dimensions (W*H*D)	510*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Single Phase Off-grid Inverter

MAXHUB



FN5KS-AH1

9 Inverters
in Parallel

Built-in 80A
Solar Charger

Wide MPPT
Range 120-500V

DUAL
Dual
AC Output

BMS
Support Lithium/
Lead-acid Battery

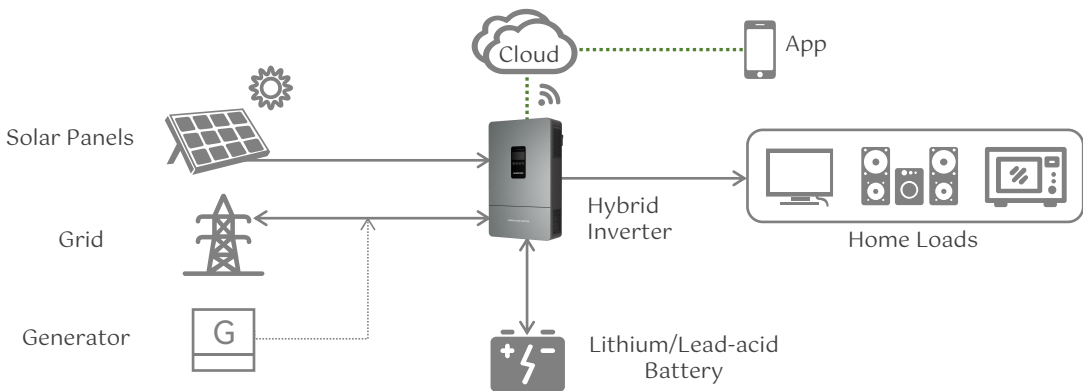
Feed-in
to Grid

Lithium Battery
Activation

Detachable
Dust Cover

WiFi
Monitoring

System Diagram



Specifications

Model	FN5KS-AH1
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 6000W
MPPT Range@Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	80
Max AC Charge Current (A)	80
Max. Charge Current (PV + AC) (A)	80
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10℃~ 50℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃~ 60℃
Net Weight (kg)	9
Dimensions (W*H*D)	510*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

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Single Phase Off-grid Inverter

MAXHUB



FN6KS-AH1

9 Inverters
in Parallel

BMS

Support Lithium/
Lead-acid Battery

Built-in 120A
Solar Charger

Lithium Battery
Activation

Wide MPPT
Range 60-500V

Detachable
Dust Cover

28A
MAX PV Input

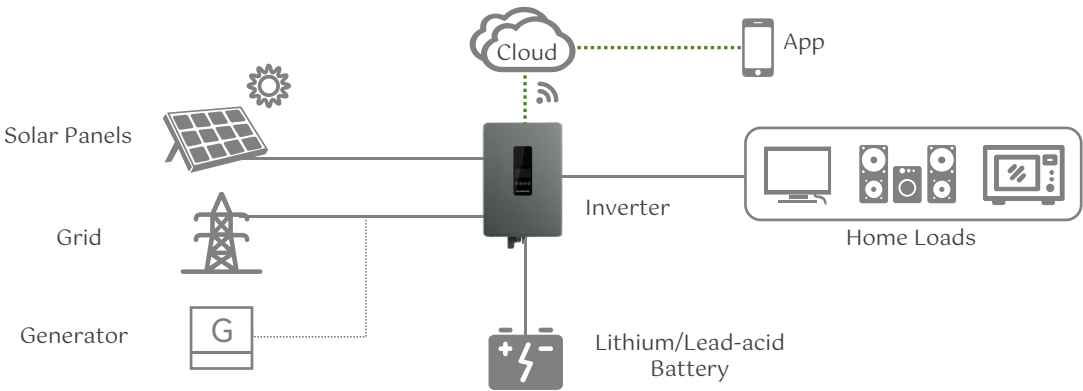
WiFi
Monitoring

DUAL
IN OUT
Dual AC In & Dual
AC Out*

Noise Control
Algorithm

*Extra interface can be selected as in or out. It cannot support at the same time.

System Diagram



Specifications

Model	FN6KS-AH1
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10min@102%~120%Load, 1min@120%~150%Load 10S@150%~200%Load, 5s@ > 200%Load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	28A / 7000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / USB / Dry Contact / CT / Meter /
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10℃ ~ 50℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃ ~ 60℃
Net Weight (kg)	10
Dimensions (W*H*D)	508*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)

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Data Collector_Off Grid Series



DDW-E



DUWB-E

Model	DDW-E	DUWB-E
General parameters		
Connecting Inverters No . (PCs)	1	
Connection Interface	DB9	USB
Inverter Communication	RS232	
Installation	Plug and Play	
Indicator	LED Indicator	
Operation Mode	AP+STA	
Encryption Algorithm	WEP/WPA-PSK/WPA2-PSK	
Dimensions (W*D*H mm)	59*28*72	26*12*64
Weight (g)	66g	11±3g
Ingress Protection	IP65	IP21
Data Collection Interval (min)	5 (default value)	
Access Data Method	APP/Remote Server	APP/Remote Server/Bluetooth
Wireless Parameter		
WiFi Standards & Frequencies	802.11b/g/n (2.412G—2.484G)	
Bluetooth Standards	-	BLE 5.0
Environment		
Operating Temperature	-30℃~ 85℃	
Relative Humidity	5% ~ 95% (Non-condensing)	
Storage Temperature	-40℃~ 90℃	
Inverter Compatibility		
Inverter Model	FN3KS-0H1	FN3K5S-AH1/CH1 / FN5KS-AH1

Single Phase Hybrid Inverter

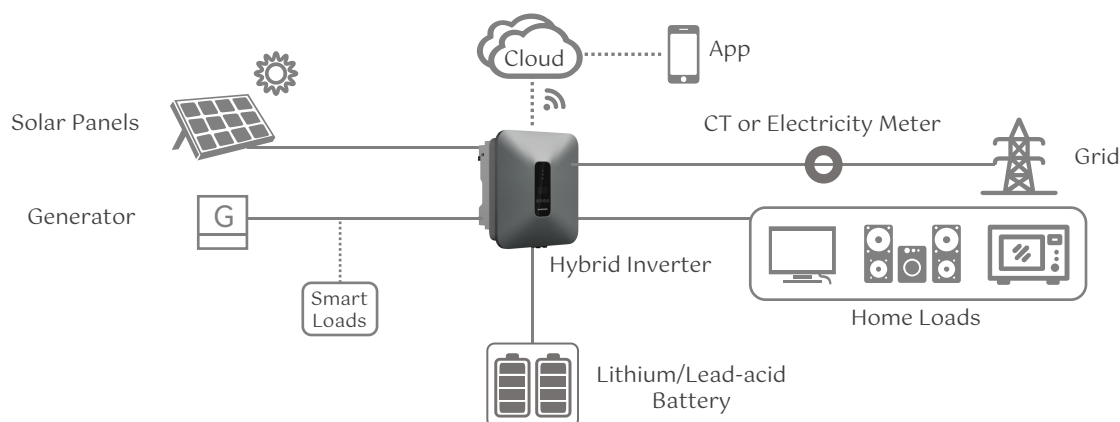


HN3KS
HN3K6S
HN4KS
HN5KS
HN6KS

- Wide MPPT Range
- 2 MPPT trackers
- Type III SPD both on DC&AC side
- 19A MPPT input current per string
- IP66 protection level
- Integrated and concise design

System Diagram

MAXHUB



Specifications

Model	HN3KS-AH2	HN3K6S-AH2	HN4KS-AH2	HN5KS-AH2	HN6KS-AH2
PV Input					
Max. PV Input Power(kW)	4.5	5.5	6	7.5	9
Max. PV Open Circuit Voltage(V)	550				
MPPT Range@Operating Voltage(VDC)	80~520				
Full Power MPPT Voltage Range(VDC)	117~500V	145~500V	158~500V	197~500V	250~500V
Start-up Voltage(VDC)	90				
Max. Input Current per MPPT(A)	19/19				
Max. Short-circuit Current(A)	25/25				
MPPT Tracker/Strings	2/1				
Nominal Input Voltage(V)	360				
AC Output(On-Grid)					
Nominal Output Power to Grid(kW)	3	3.68	4	5	6
Max. Apparent Power to Grid(kVA)	3	3.68	4	5	6
Max. Apparent Power from Grid(kVA)	3	3.68	4	5	6
Max. Apparent Current from Grid(A)	13.1	16.0	17.4	21.8	26.1
Nominal Output Current from Grid(A)	13.1	16.0	17.4	21.8	26.1
Max. Output Current to Grid(A)	13.1	16.0	17.4	21.8	26.1
Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE				
Adjustable Power Factor	0.8leading~0.8lagging				
THDI	<2%				
AC Output(BackUp)					
Nominal Output Power(kW)	3	3.68	4	5	6
Max. Apparent Power(kVA)	3	3.68	4	5	6
Nominal Output Current(A)	13.1	16.0	17.4	21.8	26.1
Max. Output Current(A)	13.1	16.0	17.4	21.8	26.1
Nominal Voltage/Frequency	230V(176V~238V), 50/60Hz, L+N+PE				
Automatic Switch Time(ms)	<20				
THDu	<2%				
Overload Capacity	110%,30s/120%,10s/150%,0.02s				
Efficiency					
Max. Efficiency	98%				
Europe Efficiency	97.50%				
MPPT Efficiency	99.00%				
Max. Battery Charge/Discharge Efficiency	94.60%				
Battery					
BatteryVoltage Range(V)	40~60				
Recommended Battery Voltage(V)	48				
Max. Charging Voltage(V)	60				
Max. Charging/Discharging Current(A)	80/80	80/80	80/80	120/120	120/120
BatteryType	Lithium and Lead Acid Battery				
Protection					
DC Switch	Yes				
DC Reverse Polarity Protection	Yes				
DC/AC Surge Protection	Type III/Type III				
AC Overvoltage Protection	Yes				
AC Short-circuit Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring	Yes				
Insulation Resistance Monitoring	Yes				
Peak/Valley Time Setting	Yes				
General Data					
HMI	LCD & APP				
BMS	RS485; CAN				
EMS/Meter	RS485				
Communication	WiFi(standard)/GPRS(opt)/4G(opt)				
Ingress Protection	IP66				
Operating Temperature Range	-25~60℃				
Relative Humidity	0~95%(Non-condensing)				
Max. Operating Altitude	4000m(Derating above 3000m)				
Cooling	Natural				
Noise Emission	≤29dB				
Dimensions(W*H*D)	485*527*230mm				
Net Weight(kg)	22	22	23	24	24
Self-consumption(W)	<10				
Standard Compliance					
Safety Regulation	IEC/EN62109-1/-2				
EMC	IEC/EN61000-6-1/-2/-3				
GridRegulation	Europe: EN50549, South Africa: NRS097-2-1:2017, Belgium: C10/11				


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Three Phase Hybrid Inverter


MAXHUB




PHN5KT / PHN6KT / PHN8KT
PHN10KT / PHN12KT / PHN15KT


98.5%
Peak Efficiency


50%
Max. DC Overload

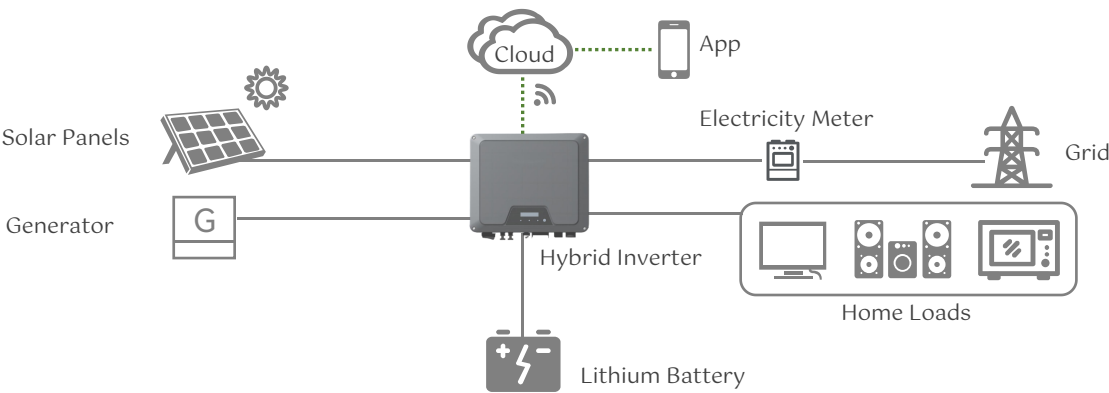

Aluminum Alloy
Die Casting


MES+FCT+CRM
Infrastructure


Easy to
Install and Service


Energy
Management

System Diagram



Specifications

MODEL	PHN5KT-BH2	PHN6KT-BH2	PHN8KT-BH2	PHN10KT-BH2	PHN12KT-BH2	PHN15KT-BH2
INPUT / DC						
Max. PV Power / Wp	7500	9000	12000	15000	18000	22500
Max. Input Voltage / V	1000					
MPP Voltage Range / V	150 – 850					
Min. Input Voltage / V	145					
Nominal DC Input Voltage / V	620					
Max. Input Current / A	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15	30 / 15
Max. DC Short Circuit Current /A	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	40 / 20
No. of Independent MPPT Inputs	2	2	2	2	2	2
No. of PV Strings per MPPT	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	2 / 1
AC OUTPUT / INPUT						
Rated Power to Grid / W	5000	6000	8000	10000	12000	15000
Max. Apparent AC Power to Grid/VA	5500	6600	8800	11000	13200	16500
Max. Apparent AC Power from Grid / VA	10000	12000	15000	15000	18000	20000
Rated Grid Voltage / Vac	380 / 400					
Grid Connection	3L / N / PE					
Rated Power Frequency / Hz	50 / 60					
Max. Output Current to Grid / A	8.5	10	13.5	16	20	24
Max. AC Current from Grid / A	17	20	23	23	29	29
Power Factor	0.8 leading ~ 0.8 lagging					
THDi @ Rated Power	<3%					
AC OUTPUT (BACKUP)						
Rated Power / W	5000	6000	8000	10000	12000	12000
Peak Apparent Output Power @ 10s / VA	10000	12000	15000	15000	15000	15000
Rated Power Frequency / Hz	50 / 60					
Nominal Output Current / A	8.5	10	13.5	16	20	20
Automatic Switch Time / ms	<10					
Nominal Output Voltage / Vac	380 / 400					
Nominal Output Frequency / Hz	50 / 60					
THDv @ Linear Load	<3%					
BATTERY INPUT						
Battery Type	Lithium					
Battery Voltage Range / V	160 – 800					
Max. Charging / Discharging Current / A	25 / 25					
Charging Strategy for Lithium Battery	Self-adaption to BMS					
EFFICIENCY						
PV Max. Efficiency	98.00%	98.00%	98.20%	98.20%	98.20%	98.50%
PV Euro. Efficiency	97.30%	97.30%	97.30%	97.40%	97.40%	97.50%
PV Max. MPPTEfficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
Max. Charging Efficiency @ PV->Battery	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%
Max. Charge / Discharge Efficiency @Battery<->Load/Grid	97.60%	97.60%	97.60%	97.60%	97.60%	97.60%
PROTECTION						
Anti-islanding Protection	Integrated					
PV Input Reverse Polarity Protection	Integrated					
Insulation Resistance Detection	Integrated					
Residual Current Monitoring	Integrated					
Output Over Current Protection	Integrated					
Output Short Circuit Protection	Integrated					
Over Voltage Protection	Integrated					
Surge Protection	DC Type II / AC Type III					
Battery Reverse Polarity Protection	Integrated					
GENERAL DATA						
Dimensions (W*H*D) / mm	425*351*200		Communication with CT / Meter		RS485	
Weight / kg	23 (PHN15KT) / 20 (for rest)		Cooling Method		Smart Cooling (PHN15KT) Natural Cooling (for rest)	
Noise Emission Typical / dBA	40		Operating Ambient Temperature / C°		-25 – +60	
User Interface	LED&LCD		Relative Humidity		0% to 100%	
DC Connection Type	MC4		Max. Operating Altitude / m		2000 (>2000 Derating)	
Battery Connection Type	SUNCLIX		Protection Class (IEC 60529)		IP65	
AC Connection Type	OT Terminal		Climatic Category (IEC 60721-3-4)		4K4H	
Communication with Cloud	RS485 / WiFi / 4G / LAN (optional)		Topology		Transformerless	
Communication with BMS	CAN/RS485		Night Consumption / W		<13	

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Data Collector_Hybrid Series



DUWB-Y

Model	DUWB-Y
General parameters	
Connecting Inverters No . (PCs)	1
Connection Interface	USB
Inverter Communication	RS485
Installation	Plug and Play
Indicator	LED Indicator
Operation Mode	AP
Encryption Algorithm	WEP/WPA-PSK/WPA2-PSK
Dimensions (W*D*H mm)	30*46*120
Ingress Protection	IP65
Data Collection Interval (min)	5 (default, 1-15 mins optional)
Access Data Method	Web/Remote Server/Bluetooth
Wireless Parameter	
WiFi Standards & Frequencies	802.11b/g/n (2.412G—2.472G)
Bluetooth Standards	BLE 5.0
Environment	
Operating Temperature	-30℃~ 70℃
Relative Humidity	10% ~ 95% (Non-condensing)
Storage Temperature	-45℃~ 90℃
Inverter Compatibility	
Inverter Model	PHN5KT/6KT/8KT/10KT/12KT/15KT, HN3KS/3K6S/4KS/5KS/6KS

Wall-Mounted LFP Battery



GN512100B

Protective and active BMS allows greater reliability and control

Flexible in parallel connection, total capacity up to 15pcs - 40.96 kWh

Compact wall-mounted design with IP65

Maximum 1C charge and 1C discharge capability

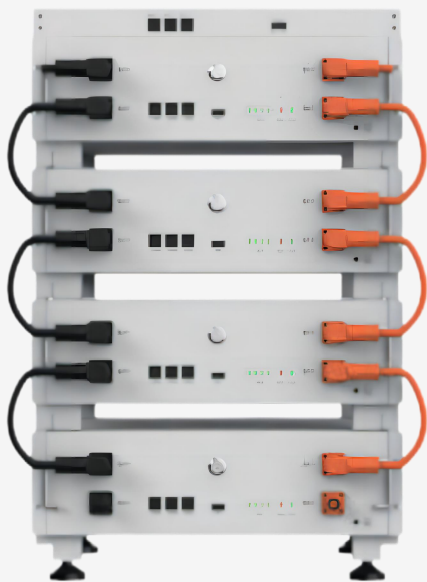
MAXHUB

Specifications

Model	GN512100B
System Parameters	
Battery Capacity (kWh)	5.12
Battery Type	LFP (Lithium Iron Phosphate Battery)
Rated Capacity (Ah)	100
Rated Voltage (V)	51.2
Operating Voltage Range (V)	44.8~58.4
Charge Current (A)	60 (Recommended) / 100 (Max)
Discharge Current (A)	60 (Recommended) / 100 (Max)
Cycle Life	>5000cycle (20℃ ~ 25℃, 60A, 90% DoD)
Communication	RS485 / CAN 2.0 / RS232
Modules Connection	1 - 8 parallel
Protection Function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit
Dimension (mm, W*D*H)	440*202*660
Weight(kg)	50±1
Working Conditions	
Installation	Wall-mounted / On Ground
Operating Temperature	-20℃~55℃
Storage Temperature	0℃~35℃
Humidity	10~90%
Enclosure Protection Degree	IP65
Altitude	<4000m
Certificate	CE, UN38.3

Low Voltage Rack LFP Lithium Battery

MAXHUB



SBR5KL / SBR10KL / SBR15KL/ SBR20KL



Flexible
for Rack and Built-in Cabinet



Easy Install
Lug Connexion and Compact Design

Specifications

Model	SBR5KL	SBR10KL	SBR15KL	SBR20KL
Nominal Energy	5kWh	10kWh	15kWh	20kWh
Usable Energy (90% DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated Voltage	51.2V	51.2V	51.2V	51.2V
Charge/Discharge Cut Off Voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Roundtrip Efficiency	>98%	>98%	>98%	>98%
Rated Charge/Discharge Current	50A/50A	100A/100A	150A/150A	200A/200A
Max. Charge/Discharge Current	100A/100A	180A/180A	200A/200A	200A/200A
Communication Interface	CAN 2.0/RS485			
Scalability	Max. 8 in parallel, Max. 40kWh			
Operating Temperature	0°C– 50°C			
Dimensions (W*H*D, mm)	482*135*433/PACK			
Weight	45kg/90kg/135kg/180kg			
Enclosure Protection Rating	IP20			
Warranty	10 years			
Certifications	IEC62619/CE/UN38.3			

High Voltage Modular LFP Lithium Battery

MAXHUB



- Automatic Inverter Configuration (set-up free)
- Automatic Battery System Configuration (set-up free)
- Intelligent Display (Key Info, Err code, SOC)



- No DC/DC, high efficiency system layout
- Up to 6 towers in parallel
- IP65 Protection



- Slim and Compact
- Plug-Play (Direct Connect RJ45)
- Aluminum Housing

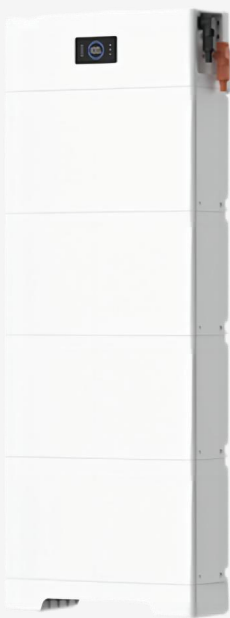
Specifications

Number of Stacks	3	4	5	6	7	8
System Energy	9.9 kWh	13.2 kWh	16.5 kWh	19.8 kWh	23.1 kWh	26.4 kWh
Usable Energy	9.6 kWh	12.8 kWh	16.0 kWh	19.2 kWh	22.4 kWh	25.6 kWh
Max Output Current	30 A	30 A	30 A	30 A	30 A	30 A
Peak Output Current	50 A (5s)	50 A (5s)	50 A (5s)	50 A (5s)	50 A (5s)	50 A (5s)
Nominal Voltage	192 V	256 V	320 V	384 V	448 V	512 V
Operating Voltage Range	162~219 V	216~292 V	270~365 V	324~438 V	378~511 V	432~584 V
Scalability	Up to 6 towers in parallel (From 9.6 kWh to 153.6 kWh)					
Dimensions (H*W*D)	800* 650* 260 mm	975* 650* 260 mm	1150* 650* 260 mm	1325* 650* 260 mm	1500* 650* 260 mm	1675* 650* 260 mm
Weight	129.5 kg	166 kg	202.5 kg	239 kg	275.5 kg	312 kg
Operation Temperature	-10~55 °C					
Protection Rating	IP65					
Round-trip Efficiency	≥ 96 %					
Certification & Compliance	VDE2510-50 / IEC62619 / CEC / CE / UN38.3					
Applications	ON Grid / ON Grid Backup / OFF Grid					

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High Voltage Modular LFP Lithium Battery DC-DC

MAXHUB



SBM5KH / SBM10KH / SBM15KH/ SBM20KH



High voltage (~400V)
enabled by built-in
DC-DC



Flexible capacity
configuration (5-60kWh),
mixed use of old and new



Compatible with
market-leading hybrid
inverter



Optimized for both grid-
tied and off grid
application

Specifications

Model	SBM5KH	SBM10KH	SBM15KH	SBM20KH
Nominal Energy	5kWh	10kWh	15kWh	20kWh
Usable Energy (100%DOD)	5kWh	10kWh	15kWh	20kWh
Rated Voltage	400V	400V	400V	400V
Charge/Discharge Cut Off Voltage	350V~450V	350V~450V	350V~450V	350V~450V
Rated Charge/Discharge Power	2.5kW	5kW	7.5kW	10kW
Communication Interface	CAN 2.0/RS485/WiFi/LAN			
DC Disconnect	Circuit breaker, 50A, 1000V rating			
Scalability	Max. 3 in parallel, Max. 60 kWh			
Operating Temperature	- 10℃ to 50℃			
Dimensions (W*H*D, mm)	633*(597/912/1227/1542)*189			
Weight	67kg/119kg/171kg/223kg			
Enclosure Protection Rating	IP65			
Cooling	Air Cooling			
Altitude	<2000m			
Warranty	10 years			
Certifications	IEC62619/CE/UN38.3			

MAXHUB

Version: V20240115

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