





R&D and sales center

ABOUT US

COMPANY PROFILE >>>>>

We have a research and development team composed of senior industry experts and professional technical personnel, and continue to invest a lot of resources in technological innovation, so far we have more than 800 patented technologies.

The company has established a modern production base, covering an area of 61,000 square meters, equipped with a number of advanced automated production lines, introducing the world's leading production equipment and testing instruments, every link strictly follows the ISO9001 quality management system standards, to ensure the reliability and consistency of product quality.

The company's products cover a variety of types and specifications of lithium batteries, battery pack all-in-one machines, widely used in household electricity, outdoor energy storage, new energy vehicles, energy storage systems, power tools, smart wearable devices, medical equipment and other fields. The products are sold well in the domestic market, and exported to Africa, Asia Pacific, the Middle East, Europe and America and other countries and regions.

In terms of service, the company has built a perfect pre-sale, sales and after-sales service system to provide customers with a full range of solutions and technical support.

Industry Experience
20⁺ yrs

Patents
800⁺ sum

Team Members
1000⁺ people

Installation Case
100⁺ countries or regions

Corporate Mission



Committed to become a global leading supplier of energy equipment and system solutions

Corporate Vision



Pursue the material and spiritual happiness of all partners

Core Values



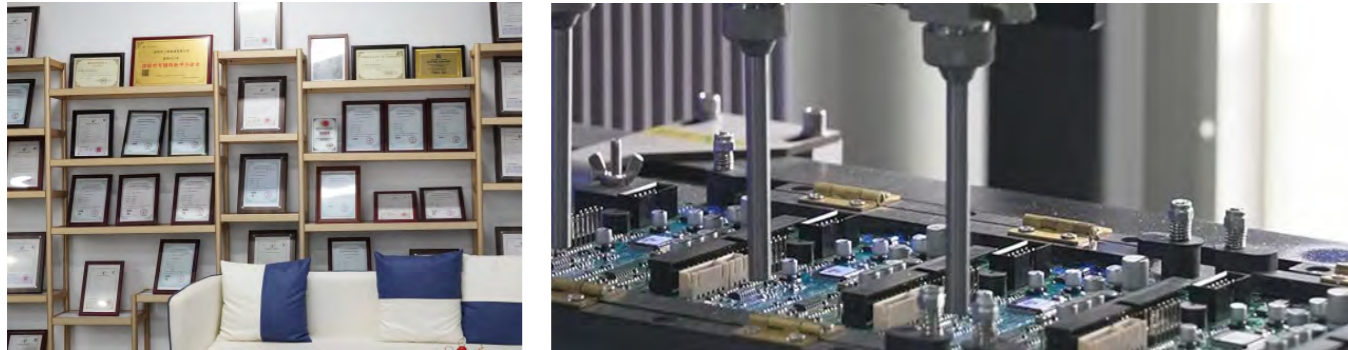
University, effort, modesty, introspection, gratitude, altruism, optimism, innovation

Enterprise Spirit



Swift and resolute, truly practical and diligent

FACTORY >>>>

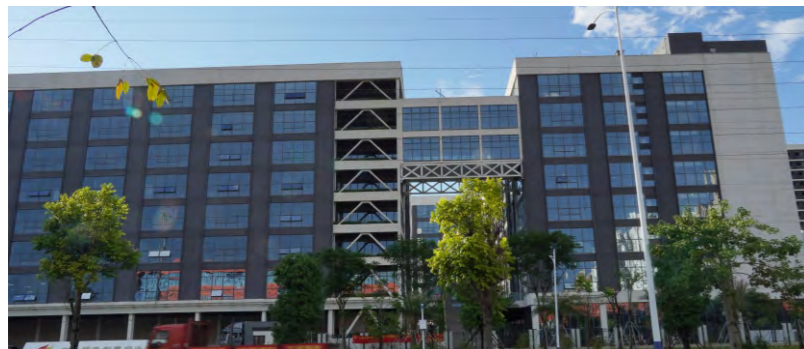


CAREFULLY CRAFTED

ABUNDANT INVENTORY



EXQUISITE WORKMANSHIP



CORE ADVANTAGES >>>>

MES System

Increase product traceability and monitor product quality throughout the entire process

Complete Processing Technology

Reduce outsourcing quality risks and meet the needs of customers in the photovoltaic industry

ONE STOP SERVICE

Provide one-stop services from complete machine production to overall design solutions for customers in the photovoltaic industry

High Quality Partners

Strategic cooperation with top equipment and material suppliers both domestically and internationally

Experienced R&D Team

More than 50 professional technical talents with over 20 years of experience in the photovoltaic industry have been dedicated to R&D and manufacturing for 20 years

Intelligent Manufacturing Enterprise

Production efficiency increased by 30%
Artificial reduction of 50%
Scrap reduced by 40%



ON/OFF GRID SOLAR INVERTER

SGE SERIES



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SGP5-11KW SERIES



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SGP13-16KW SERIES



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MAX SERIES



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MAX-BL SERIES



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ECO SERIES



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ECO-II SERIES



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ECO-BL SERIES



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HGX SERIES



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NM-V plus SERIES



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OFF GRID SOLAR INVERTER

EP-2400L SERIES



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EP-4000L SERIES



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EP-4200H SERIES



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EP-4200H PRO SERIES



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SP SERIES



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RS SERIES



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LS SERIES



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NMS SERIES



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POWER INVERTER

RP1-6KW SERIES



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RP8-12KW SERIES



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CAR INVERTER

SAK-II SERIES



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MPPT CONTROLLER

XMC SERIES



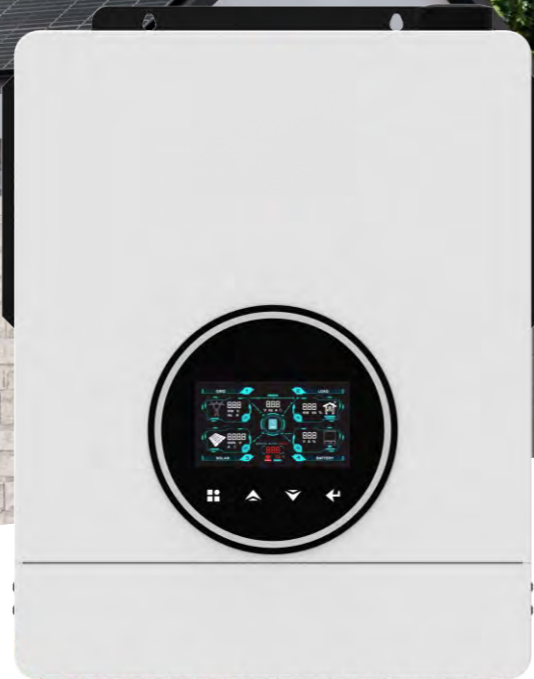
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ON/OFF GRID SOLAR INVERTER

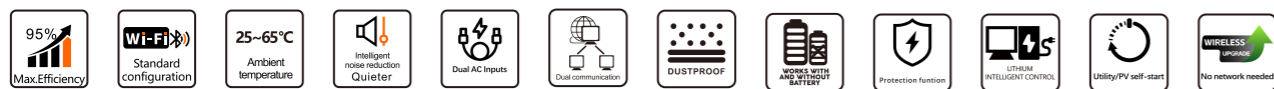
SGE SERIES



NEW
New Launch



KEY STRENGTHS



FEATURES

- High Efficiency & Smaller: Inverter/charging efficiency up to 95.5% (mainstream $\leq 93\%$), 30% smaller, low heat for longer life
- Smart Dual Outputs: Manages critical and general loads; custom 2nd output switch time & power-off voltage
- Smart Lithium Battery Mgmt: Activates protected batteries; adjusts charging curve by power to optimize charging
- Parallel Operation: Up to 9 units parallel; compatible with 3-phase/single-phase
- Smart Noise Control: Long-life fan (35-50dB); balances heat dissipation & quietness
- Standard broken-code LCD (current standard); optional 4.3-inch capacitive touch display
- Dustproof net: replaceable, washable; humanized cleaning cycle reminder
- Supports wireless upgrade (no network needed) for personalized customization
- Utility/PV self-start: Auto-starts when utility/PV connected (no manual restart after low-voltage battery shutdown)
- Recommended altitude $\leq 2000\text{m}$ (derated use at 2000m)
- AC dual-input: One for mains power, one for generator dedicated interface
- Microgrid anti-backflow (optional): External CT + current sensor enables self-consumption, reducing wiring work
- Battery-Free Operation: Works with PV or mains power
- The optional WIFI module, support links SUNRAY Cloud for anytime/anywhere energy management & monitoring
- Bluetooth Direct Connect: Check device status via phone without network
- Standard 2 independent PV inputs; each MPPT tracking efficiency $>99.5\%$
- Battery communication: customizable protocol; supports RS485/CAN, lithium/lead-acid batteries
- Optimal operating temp: 25°C; max: 65°C (derated above 45°C)
- Smart fan control: reduces noise/air intake, extends dustproof net & device service life
- Max noise $<50\text{dB}$; $<40\text{dB}$ at night

MODEL	SGE244K5SH2	SGE486K5SH2	SGE489K0SH2	SGE4811K0SH2
Rated Output Power	4.5kw	6.5kw	9kw	11kw
Rated Output Current	19.6A	28.5A	39.2A	47.9A
Input Mode	Single phase			
Input Voltage Range	90-280Vac; or 170-280Vac			
Maximum AC Current Input	40A	45A	60A	65A
Change-over Time	10ms (narrow range), 20ms (wide range)			
Input Power Factor	> 0.99 > 0.9			
Dual Input	Independent input interface for mains and generator			
BATTERY MODE				
Output Voltage	220/230 ± 5 (Vac)			
Battery Discharge Current	190A	140A	190A	230A
Battery Charging Current	190A	140A	190A	230A
Battery Input Range	20-30 (VDC)		40-60 (VDC)	
Overvoltage Protection	32VDC		63VDC	
Maximum Conversion Efficiency	95%		95.20%	
Overload	110% -125% 1min 125% -150% 30S $> 150\% 1\text{S}$			
Battery Type	Lead-acid batteries, lithium batteries, vented lead-acid battery, user customization			
Dual-port Output	The second load can be set to start and stop mode: 1. User-defined battery voltage for shutdown and startup 2. Users can define the time interval to start and stop			
Peak Coefficient Of Output Current	1: 3			
Parallel Current Sharing	Imbalance $< 2\%$			
Off-grid Mode Feed Power	$< 30\text{VA}$			
MPPT INPUT				
MPPT Quantity	1+1			
Maximum PV Input Current	13A+13A	18A+18A	18A+18A	18A+18A
Maximum PV Input Power	7kw	10kw	12kw	14.5kw
MPPT Starting Voltage	120VDC			
PV Input Voltage Range	60-500 (VDC)			
PV Best Input Voltage	360VDC			
MPPT Tracking Efficiency	$> 99.5\%$			
Maximum Conversion Efficiency	97.20%		97.50%	
PV Priority Supply	Priority charging			
PROTECTIVE FUNCTION				
Input Overvoltage Protection	280Vac			
Input Overvoltage Protection Recovery	270Vac			
Input Under-voltage Protection	90Vac (narrow range); 170Vac (wide range)			
Input Under-voltage Protection Recovery	100Vac (narrow range); 180Vac (wide range)			
Output Short Circuit Protection	5 power frequency cycles			
Fan Fault Protection	Fan fault protection function. When any fan is faulty, the power module has no output.			
COMMUNICATION FUNCTIONS				
PROJECT		REMARKS		
Lithium Battery	One RS485; one CAN (optional)			
WIFI/host Computer	External & built-in wifi module (optional), RS232; Private brand (built-in standard wifi + Bluetooth)			
Parallel Operation	CAN, up to nine units in parallel			
Remote Control	Wifi, Bluetooth (can be set up and view inverter data remotely, no Internet connection required)			
OTHER				
Battery-free Mode	Compatible with lithium battery activation and no battery use			
IP Rating	IP20 (SGE series)			
Lithium Battery Communications	Standard protocol: PACE, PYLON Support dedicated charging curve for lithium battery			
Noise	Maximum noise 45dB Rated power condition $< 45\text{dB}$ (ambient temperature 45 degrees) Under light load at night $< 40\text{dB}$ (ambient temperature 25 degrees)			
Island Protection	Inclusion of isolated island protection			
Safety Standard	IEC-62109			
WORK ENVIRONMENT				
Operating Temperature Range	$-10 \sim 65^\circ\text{C}$ (use above 45°C derated)			
Relative Humidity	5-95% (surface no condensation)			
PHYSICAL				
Dimension, D*W*H (mm) (including connectors)	390*326*105 (mm)	390*326*105 (mm)	467*371*114 (mm)	467*371*114 (mm)
weight (kg)	8.6kg	8.6kg	12kg	12kg

ON/OFF GRID SOLAR INVERTER

SGP5-11KW SERIES



KEY STRENGTHS



FEATURES

- High Efficiency & Smaller: Inverter/charging efficiency up to 95.5% (mainstream $\leq 93\%$), 30% smaller, low heat for longer life
- Smart Dual Outputs: Manages critical and general loads; custom 2nd output switch time & power-off voltage
- Smart Lithium Battery Mgmt: Activates protected batteries; adjusts charging curve by power to optimize charging
- Parallel Operation: Up to 9 units parallel; compatible with 3-phase/single-phase
- Smart Noise Control: Long-life fan (35-45dB); balances heat dissipation & quietness
- Standard broken-code LCD (current standard); optional 4.3-inch capacitive touch display
- Dustproof net: replaceable, washable; humanized cleaning cycle reminder
- Supports wireless upgrade (no network needed) for personalized customization
- Utility/PV self-start: Auto-starts when utility/PV connected (no manual restart after low-voltage battery shutdown)
- Recommended altitude $\leq 2000\text{m}$ (derated use at 2000m)
- AC dual-input: One for mains power, one for generator dedicated interface
- Microgrid anti-backflow (optional): External CT + current sensor enables self-consumption, reducing wiring work
- Battery-Free Operation: Works with PV or mains power
- The optional WIFI module, support links SUNRAY Cloud for anytime/anywhere energy management & monitoring
- Bluetooth Direct Connect: Check device status via phone without network
- Standard 2 independent PV inputs; each MPPT tracking efficiency $>99.5\%$
- Battery communication: customizable protocol; supports RS485/CAN, lithium/lead-acid batteries
- Optimal operating temp: 25°C; max: 65°C (derated above 45°C)
- Smart fan control: reduces noise/air intake, extends dustproof net & device service life
- Max noise $<45\text{dB}$; $<40\text{dB}$ at night

MODEL	SGP485K0SH2	SGP486K5SH2	SGP489K0SH2	SGP4811K0SH2
Rated Output Power	5.0kw	6.5kw	9kw	11kw
Rated Output Current	21.7A	28.5A	39.2A	47.9A
Input Mode	Single phase			
Input Voltage Range	90-280Vac; or 170-280Vac			
Maximum AC Current Input	40A	45A	60A	65A
Change-over Time	10ms (narrow range), 20ms (wide range)			
Input Power Factor	> 0.99 > 0.9			
Dual Input	Independent input interface for mains and generator			
BATTERY MODE				
Output Voltage	220/230 ± 5 (Vac)			
Battery Discharge Current	110A	140A	190A	230A
Battery Charging Current	110A	140A	190A	230A
Battery Input Range	40-60 (VDC)			
Overvoltage Protection	63VDC			
Maximum Conversion Efficiency	95%		95.20%	
Overload	110%-125% 1min 125% -150% 30S $> 150\% 1\text{S}$			
Battery Type	Lead-acid batteries, lithium batteries, vented lead-acid battery, user customization			
Dual-port Output	The second load can be set to start and stop mode: 1. User-defined battery voltage for shutdown and startup 2. Users can define the time interval to start and stop			
Peak Coefficient Of Output Current	1: 3			
Parallel Current Sharing	Imbalance $< 2\%$			
Off-grid Mode Feed Power	$< 30\text{VA}$			
MPPT INPUT				
MPPT Quantity	1+1			
Maximum PV Input Current	13A+13A	18A+18A	18A+18A	18A+18A
Maximum PV Input Power	7kw	10kw	12kw	14.5kw
MPPT Starting Voltage	120VDC			
PV Input Voltage Range	60-500 (VDC)			
PV Best Input Voltage	360VDC			
MPPT Tracking Efficiency	$> 99.5\%$			
Maximum Conversion Efficiency	97.20%		97.50%	
PV Priority Supply	Priority charging			
PROTECTIVE FUNCTION				
Input Overvoltage Protection	280Vac			
Input Overvoltage Protection Recovery	270Vac			
Input Under-voltage Protection	90Vac (narrow range); 170Vac (wide range)			
Input Under-voltage Protection Recovery	100Vac (narrow range); 180Vac (wide range)			
Output Short Circuit Protection	5 power frequency cycles			
Fan Fault Protection	Fan fault protection function. When any fan is faulty, the power module has no output.			
COMMUNICATION FUNCTIONS				
PROJECT		REMARKS		
Lithium Battery	One RS485; one CAN (optional)			
WiFi/host Computer	External & built-in wifi module (optional), RS232; Private brand (built-in standard wifi + Bluetooth)			
Parallel Operation	CAN, up to nine units in parallel			
Remote Control	Wifi, Bluetooth (can be set up and view inverter data remotely, no Internet connection required)			
OTHER				
Battery-free Mode	Compatible with lithium battery activation and no battery use			
IP Rating	IP66 (SGP series)			
Lithium Battery Communications	Standard protocol: PACE, PYLON Support dedicated charging curve for lithium battery			
Noise	Maximum noise 45dB Rated power condition $< 45\text{dB}$ (ambient temperature 45 degrees) Under light load at night $< 40\text{dB}$ (ambient temperature 25 degrees)			
Island Protection	Inclusion of isolated island protection			
Safety Standard	IEC-62109			
WORK ENVIRONMENT				
Operating Temperature Range	$-10\sim 65^\circ\text{C}$ (use above 45°C derated)			
Relative Humidity	5-95% (surface no condensation)			
PHYSICAL				
Dimension D*W*H (mm) (including connectors)	540*350*188 (mm)		620*390*196 (mm)	
weight (kg)	15kg		18.5kg	

ON/OFF GRID SOLAR INVERTER

SGP13-16KW SERIES



KEY STRENGTHS



FEATURES

- High Efficiency & Smaller: Inverter/charging efficiency up to 95.5% (mainstream $\leq 93\%$), 30% smaller, low heat for longer life
- Smart Dual Outputs: Manages critical and general loads; custom 2nd output switch time & power-off voltage
- Smart Lithium Battery Mgmt: Activates protected batteries; adjusts charging curve by power to optimize charging
- Parallel Operation: Up to 9 units parallel; compatible with 3-phase/single-phase
- Smart Noise Control: Long-life fan (35-45dB); balances heat dissipation & quietness
- Standard broken-code LCD (current standard); optional 4.3-inch capacitive touch display
- Dustproof net: replaceable, washable; humanized cleaning cycle reminder
- Supports wireless upgrade (no network needed) for personalized customization
- Utility/PV self-start: Auto-starts when utility/PV connected (no manual restart after low-voltage battery shutdown)
- Recommended altitude $\leq 2000\text{m}$ (derated use at 2000m)
- AC dual-input: One for mains power, one for generator dedicated interface
- Microgrid anti-backflow (optional): External CT + current sensor enables self-consumption, reducing wiring work
- Battery-Free Operation: Works with PV or mains power
- The optional WIFI module, support links SUNRAY Cloud for anytime/anywhere energy management & monitoring
- Bluetooth Direct Connect: Check device status via phone without network
- Standard 2 independent PV inputs; each MPPT tracking efficiency $>99.5\%$
- Battery communication: customizable protocol; supports RS485/CAN, lithium/lead-acid batteries
- Optimal operating temp: 25°C; max: 65°C (derated above 45°C)
- Smart fan control: reduces noise/air intake, extends dustproof net & device service life
- Max noise $<45\text{dB}$; $<40\text{dB}$ at night

MODEL	SGP4813K0TH2	SGP4816K0TH2
Rated Output Power	13kw	16kw
No-load power consumption in mains mode	$<100\text{W}$	$<100\text{W}$
Input Mode	Three phase	
Input Voltage Range	400/320-480(Vac);	
Maximum Input Current	70A	
Change-over Time	10ms (narrow range), 20ms (wide range)	
Input Power Factor	>0.99 >0.98	
Dual Input	Independent input interface for mains and generator	
BATTERY MODE		
Output Voltage	230/400 (Vac)	
Battery Discharge Current	260A	300A
Battery Charging Current	260A	300A
Battery Input Range	40-60 (VDC)	
Overvoltage Protection	62VDC	
Charging/discharging conversion Efficiency	96.5%	
Overload	110%-125% 30S 125% -150% 15S $>150\% 1\text{S}$	
Battery Type	Lead-acid batteries, lithium batteries, vented lead-acid battery, user customization	
Dual-port Output	The second load can be set to start and stop mode: 1. User-defined battery voltage for shutdown and startup 2. Users can define the time interval to start and stop	
Peak Coefficient Of Output Current	1: 3	
Parallel Current Sharing	Imbalance $<2\%$	
Off-grid Mode Feed Power	$<30\text{VA}$	
MPPT INPUT		
MPPT Quantity	2	3
Maximum PV Input Current	18A+18A	18A+18A+18A
Maximum PV Input Power	20kw	24kw
MPPT Starting Voltage	160VDC	
PV Input Voltage Range	150-1000 (VDC)	
PV Best Input Voltage	600VDC	
MPPT Tracking Efficiency	$>99.5\%$	
PV inverter European efficiency	98%	
PV Priority Supply	Priority charging	
PROTECTIVE FUNCTION		
Input Overvoltage Protection	520Vac	
Input Overvoltage Protection Recovery	505Vac	
Input Under-voltage Protection	280Vac	
Input Under-voltage Protection Recovery	295Vac	
Output Short Circuit Protection	5 power frequency cycles	
Fan Fault Protection	Fan fault protection function. When any fan is faulty, the power module has no output.	
COMMUNICATION FUNCTIONS		
PROJECT		REMARKS
Lithium Battery	One RS485; one CAN (optional)	
WiFi/host Computer	Built in WiFi, Bluetooth module, APP (optional)	
Parallel Operation	CAN, up to nine units in parallel	
Human-machine Interface	Touch 4.3-inch color screen	
OTHER		
Battery-free Mode	Compatible with lithium battery activation and no battery use	
IP Rating	IP66 (SGP series)	
Lithium Battery Communications	Standard protocol: PACE, PYLON Support dedicated charging curve for lithium battery	
Noise	Maximum noise 45dB Rated power condition $<45\text{dB}$ (ambient temperature 45 degrees) Under light load at night $<40\text{dB}$ (ambient temperature 25 degrees)	
Island Protection	Inclusion of isolated island protection	
Safety Standard	IEC-62109	
WORK ENVIRONMENT		
Operating Temperature Range	$-10\sim 65^\circ\text{C}$ (use above 45°C derated)	
Relative Humidity	5-95% (surface no condensation)	
PHYSICAL		
Dimension, D*W*H(mm) (including connectors)	728*436*255(mm)	728*436*255(mm)
weight (kg)	30kg	30kg

ON/OFF GRID SOLAR INVERTER

MAX SERIES



KEY STRENGTHS



FEATURES

- | Pure sine wave solar inverter(on/off Grid)
- | Inverter can run without battery
- | Built-in Lithium battery automatic activation
- | Dual communication ports for Battery communication and Wifi communication
- | Smart battery charge design to optimize battery life
- | Dual PV input
- | WIFI&GPRS available for IOS and Android
- | One-key restoration to factory Settings
- | Built-in 160A MPPT solar charger(for 8.2kw,10.2kw)
- | Built-in anti-dust kit for harsh environment
- | Dual output
- | On Off Grid Work Mode

MODEL	MAX-8.2KW	MAX-10.2KW
PHASE	Single phase	
Maximum PV Input Power	5400W+5400W	
Rate Output Power	8200W/8200VA	10200W/10200VA
Grid-Tie OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
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%	
OFF-GRID, HYBRID OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPP Voltage Range	90VDC-450VDC	
Number Of MPPT/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	
AC Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	48.2A	60A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Efficiency	94%	
BATTERY & CHARGER		
Nominal Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Charging Current	160A	
GENERAL		
PHYSICAL		
Dimension, D*W*H(mm)	500*390*136	
Package Dimension, D*W*H(mm)	588*463*205	
INTERFACE		
Communication Port	RS232/RS485/WIFI/BMS	
ENVIRONMENT		
Operating Temperature	-10 °C ~ 50°C	

ON/OFF GRID SOLAR INVERTER

MAX-BL SERIES



KEY STRENGTHS



FEATURES

- | Pure sine wave solar inverter(on/off Grid)
- | Inverter can run without battery
- | Built-in Lithium battery automatic activation
- | Dual communication ports for Battery communication and Wifi communication
- | Smart battery charge design to optimize battery life
- | Dual PV input
- | WIFI&GPRS available for IOS and Android
- | One-key restoration to factory Settings
- | Built-in 160A MPPT solar charger(for 8.2kw,10.2kw)
- | Built-in anti-dust kit for harsh environment
- | Dual output(the second load output power can be set from 20% to 70%)
- | On Off Grid Work Mode

MODEL	MAX-BL-8.2KW	MAX-BL-10.2KW
PHASE	Single phase	
Maximum PV Input Power	5400W+5400W	
Rate Output Power	8200W/8200VA	10200W/10200VA
Grid-Tie OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
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%	
OFF-GRID, HYBRID OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPP Voltage Range	90VDC-450VDC	
Number Of MPPT/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	
AC Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	48.2A	60A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Efficiency	94%	
BATTERY & CHARGER		
Nominal Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Charging Current	160A	
GENERAL		
PHYSICAL		
Dimension, D*W*H(mm)	580*420*135	
Package Dimension, D*W*H(mm)	650*490*236	
INTERFACE		
Communication Port	RS232/RS485/WIFI/BMS	
ENVIRONMENT		
Operating Temperature	-10 °C ~ 50 °C	

ON/OFF GRID SOLAR INVERTER

ECO SERIES



KEY STRENGTHS



FEATURES

- | Pure sine wave solar inverter(on/off Grid)
- | 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 MPPT Solar charge
- | High PV input voltage range(60~500VDC)
- | Built-in anti-dust kit for harsh environment
- | Smart battery charge design to optimize battery life
- | Dual output

MODEL	ECO-4.2KW PLUS	ECO-6.2KW PLUS
PHASE	Single phase	
Maximum PV Input Power	6200W	6500W
Rate Output Power	4200W/4200VA	6200W/6200VA
Grid-Tie OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	
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%	
OFF-GRID, HYBRID OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPP Voltage Range	60VDC-450VDC	
Number Of MPPT/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	
AC Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Efficiency	94%	
BATTERY & CHARGER		
Nominal Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Charging Current	120A	120A
GENERAL		
PHYSICAL		
Dimension, D*W*H(mm)	420*350*110	
Package Dimension, D*W*H(mm)	500*415*180	
INTERFACE		
Communication Port	RS232/RS485/WIFI/BMS	
ENVIRONMENT		
Operating Temperature	-10 °C ~ 50°C	

ON/OFF GRID SOLAR INVERTER

ECO-II SERIES



KEY STRENGTHS



FEATURES

- Pure sine wave solar inverter(on/off Grid)
- WIFI&GPRS available for iOS and Android
- One-key restoration to factory Settings
- Dual communication ports for Battery communication and Wifi communication
- High PV input voltage range(60~500VDC)
- Smart battery charge design to optimize battery life
- Offline upgrade through COMM port
- Inverter-lithium battery communication status displayed directly on the LCD interface
- Add lithium battery information display to the APP
- Output power factor 1.0
- Inverter can run without battery
- Built-in Lithium battery automatic activation
- Built-in MPPT Solar charge
- Built-in anti-dust kit for harsh environment
- Dual output
- Maximum PV input current: 27A
- In battery-free mode, PV systems deliver a better user experience when powering loads

MODEL	ECO-II-4.2KW PLUS	ECO-II-6.2KW PLUS
PHASE	Single phase	
Maximum PV Input Power	6200W	6500W
Rate Output Power	4200W/4200VA	6200W/6200VA
Grid-Tie OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	27A	
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%	
OFF-GRID, HYBRID OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPP Voltage Range	60VDC-450VDC	
Number Of MPPT/Maximum Input Current	27A	27A
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	
AC Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Efficiency	94%	
BATTERY & CHARGER		
Nominal Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Charging Current	120A	120A
GENERAL		
PHYSICAL		
Dimension, D*W*H(mm)	420*350*110	
Package Dimension, D*W*H(mm)	500*415*180	
INTERFACE		
Communication Port	RS232/RS485/WIFI/BMS	
ENVIRONMENT		
Operating Temperature	-10°C ~ 50°C	

ON/OFF GRID SOLAR INVERTER

ECO-BL SERIES



KEY STRENGTHS



FEATURES

- | Pure sine wave solar inverter(on/off Grid)
- | Output power factor 1.0
- | WIFI&GPRS available for IOS and Android
- | Dual output(the second load output power can be set from 20% to 70%)
- | One-key restoration to factory Settings
- | Built-in Lithium battery automatic activation
- | Dual communication ports for Battery communication and Wifi communication
- | Built-in 120A MPPT Solar charge :max 6200W(for 4.2kw),max6500W(for 6.2KW)
- | High PVinput voltage range(60~500VDC)
- | Built-in anti-dust kit for harsh environment
- | Smart battery charge design to optimize battery life
- | Inverter can run without battery

MODEL	ECO-BL-4.2KW PLUS	ECO-BL-6.2KW PLUS
PHASE	Single phase	
Maximum PV Input Power	6200W	6500W
Rate Output Power	4200W/4200VA	6200W/6200VA

Grid-Tie OPERATION

PV INPUT(DC)

Nominal DC Voltage/Maximum DC Voltage	360VDC/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%	
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OFF-GRID, HYBRID OPERATION

PV INPUT(DC)

Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPP Voltage Range	60VDC-450VDC	
Number Of MPPT/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	
AC Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A

BATTERY MODE OUTPUT(AC)

Nominal Output Voltage	220/230/240VAC	
Efficiency	94%	

BATTERY & CHARGER

Nominal Voltage	120A	120A
Maximum Solar Charging Current	100A	100A
Maximum AC Charging Current	120A	120A
Maximum Charging Current		

GENERAL

PHYSICAL

Dimension, D*W*H(mm)	602*358*113	
Package Dimension, D*W*H(mm)	665*415*215	

INTERFACE

Communication Port	RS232/RS485/WIFI/BMS	
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ENVIRONMENT

Operating Temperature	-10 °C ~ 50°C	
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ON/OFF GRID SOLAR INVERTER

HGX SERIES



KEY STRENGTHS



FEATURES

- Pure sine wave solar inverter
- Smart battery charger design for optimized battery performance
- Auto restart while PV is recovering
- Cold restart function
- WiFi monitoring function(optional)
- Built-in 150A MPPT(MaxPV7200W) solar charger
- Unique glass top cover design with 6.25inch LCD display and touchable buttons
- Over-load ,overtemperature and output short circuit protection
- Built-in lithium battery automatic activation

MODEL	HGX4.5KW	HGX6.5KW
PHASE	Single phase	
Maximum PV Input Power	7600W	
Rate Output Power	4500VA/4500W	6500VA/6500W
OFF-GRID		
PV INPUT(DC)		
Maximum DC Voltage	450VDC	
Start-upVoltage/Initial Feeding Voltage	55VDC/56VDC	
MPP Voltage Range	55VDC-450VDC	
Number Of MPPT/Maximum Input Current	1/20A	
GRID OUTPUT(AC)		
Nominal Output Voltage	230VAC	
Output Voltage Range	220VAC / 230VAC /240VAC	
Nominal Output Current	19.5A	28.3A
AC INPUT		
AC Start-upVoltage/AutoRestart Voltage	90VAC/100VAC(APL);170VAC/180VAC(UPS)	
AC Input Voltage Range	90VAC-265VAC (APL) /170VAC-265VAC (UPS)	
Maximum AC Input Current	30A/40A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	230VAC	
Efficiency	94%	
BATTERY & CHARGER		
DC Voltage Range/Nominal Voltage	21V-31V/24V	42V-62V/48V
Maximum Solar Charging Current	150A	130A
Maximum AC Charging Current	140A	110A
Maximum Charging Current	150A	130A
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	400*250*89	
Net Weight(kgs)	7.5kg	8.5kg
INTERFACE		
Communication Port	RS232-WIFI / RS485-BMS	
ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non-condensing)	
Operating Temperature	-5°C ~ 55°C	
STANDARD		
Safety	CE:IEC-62109	

ON/OFF GRID SOLAR INVERTER

NM-V plus SERIES



★ NEW ★
Newly Upgraded

KEY STRENGTHS



FEATURES

- Pure sine wave solar inverter(On/Off Grid)
- Inverter can run without battery
- MPPT Solar charge: max 6200W(4.5 KV); max 6500W(for 6.5 KV)
- Built-in anti-dust kit for harsh environment
- Dual communication,RS232 communication is used to connect WIFI.and RS485 communication is used to match lithium battery BMS
- The machine can be connected to the grid for use
- WIFI&GPRS available for IOS and Android
- One-key restoration to factory Settings
- High PV input voltage range(60~500VDC)
- Smart battery charge design to optimize battery life
- The fan has a speed control function, which adjusts the fan speed according to the load, charging current, and temperature

MODEL	Victor NM-V-4.5KVA PLUS	Victor NM-V-6.5KVA PLUS
Phase	1-phase	
Maximum PV Input Power	4500W	6500W
Rated Output Power	4500W/4500VA	6500W/6500VA
INPUT		
Voltage	120-140VAC/180VAC	
Selectable Voltage Range	90-280VACor 170-280VAC	
Frequency Range	50/60Hz	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195.5~253VAC	
Nominal Output Current	19.6A	28.2A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49~51±1Hz	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC±5%	
Surge Power	9000W	13000W
Efficiency(Peak)	94%	
Transfer Time	10 ms(For Personal Computers);20 ms(For Home Appliances)	
Waveform	Pure sine wave	
No Load Power Consumption	42W	62W
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	29.2VDC	58.4VDC
Overcharge Protection	28.2VDC	56.4VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	6200W	6500W
MPPT Range & Operating Voltage	60~450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum PV Input Current	27A	
Maximum AC Charging Current	100A	100A
Maximum Solar Charging Current	120A	
Maximum Solar+AC Charging Current	120A	120A
PHYSICAL		
Dimension,H*W*D(mm)	440*310*140	
Cartoon Dimension,H*W*D(mm)	555*393*225	
Net Weight(kgs)	10.5	11.0
Gross Weight(kgs)	11.5	12.0
Communication Interface	RS232/WIFI/BMS/GPRS	
ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non-condensing)	
Operating Temperature	-10°C~50°C	
STANDARD		
Compliance Safety	CE	

OFF GRID SOLAR INVERTER

EP-2400L



KEY STRENGTHS



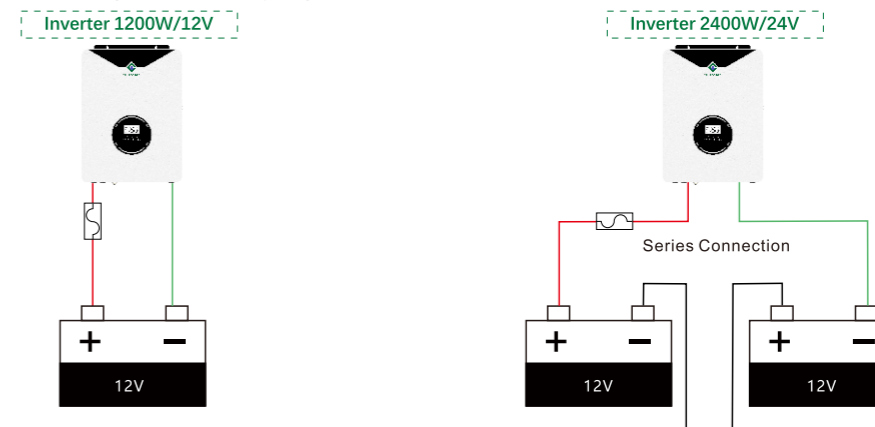
FEATURES

- | Work at 2 different voltages : 12VDC or 24VDC. It can meet different loads needs of users
- | Dual use on one inverter--World's first creation in 2025
- | According to the requirements of load,the input voltage range of utility grid can be selected
- | Solar energy and utility grid can power loads at the same time
- | Automatic restart function when mains power is restored
- | The intelligent charging design of battery makes the battery more fully utilized
- | Cold start function
- | Pure sine wave output inverter
- | According to the battery requirements, the charging current can be set through LCD
- | AC input is compatible with mains and generator
- | Overload/Overtemperature/ short circuit protection
- | RGB lights (optional)

MODEL	EP-2400L	
BATTERY	12VDC	24VDC
PHASE	Single phase	
Maximum PV Input Power	600W	1200W
Rate Output Power	1200VA/1200W	2400VA/2400W
OFF-GRID		
PV INPUT(DC)		
Maximum DC Voltage	150VDC	
Start-up Voltage	20VDC	30VDC
MPP Voltage Range	20VDC-150VDC	30VDC-150VDC
GRID OUTPUT(AC)		
Nominal Output Voltage	230VAC	
AC INPUT		
AC Start-upVoltage/Auto Restart Voltage	90VAC/80VAC	
AC Input Voltage Range	90VAC ~ 280VAC	
Maximum AC Input Current	30A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	230VAC	
Efficiency	94%	
BATTERY & CHARGER		
DC Voltage Range/Nominal Voltage	10VDC ~ 16VDC/12VDC	20VDC ~ 32VDC/24VDC
Maximum Solar Charging Current	40A	
Maximum AC Charging Current	60A	
Maximum Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	360*275*84.7	
Net Weight (kgs)	5.0	
INTERFACE		
Communication Port	RS232/RS485/WIFI/BMS	
ENVIRONMENT		
Operating Temperature	-20°C ~ 50°C	
STANDARD		
Safety	CE:IEC-62109	

DUAL USE ON ONE INVERTER

EP2400L is working at 2 voltages and carrying different loads



Freely match 12VDC or 24VDC according to user needs(The maximum load is 1200W for 12v battery can carry,and the maximum load is 2400W for 24V battery can carry)

OFF GRID SOLAR INVERTER

EP-4000L



KEY STRENGTHS



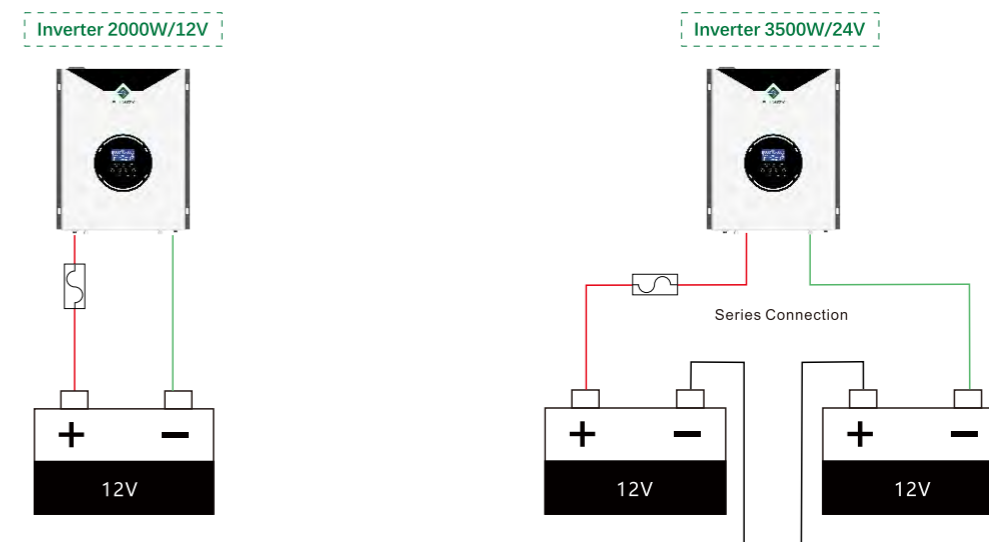
FEATURES

- | Work at 2 different voltages : 12VDC or 24VDC. It can meet different loads needs of users
- | Dual use on one inverter--World's first creation in 2025
- | According to the requirements of load,the input voltage range of utility grid can be selected
- | Solar energy and utility grid can power loads at the same time
- | Automatic restart function when mains power is restored
- | The intelligent charging design of battery makes the battery more fully utilized
- | Cold start function
- | Pure sine wave output inverter
- | According to the battery requirements, the charging current can be set through LCD
- | AC input is compatible with mains and generator
- | Overload/Overtemperature/ short circuit protection
- | Leakage current protection function

MODEL	EP-4000L	
Battery Voltage	12V	24V
Rated output power	2000VA/2000W	3500VA/3500W
Input	230VAC	
Voltage	170~280VAC(ForPersonal Computers)	
Selectable Voltage Range	90~280VAC(ForHome Appliances)	
Frequency Range	50Hz/60Hz(AutoSensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC±5%	
Surge Power	4000W	7000W
Efficiency(peak)Battery to INV	94%	
Transfer Time	10ms(For Personal Computers);20ms(For Home Appliances)	
BATTERY&AC CHARGE		
Battery Voltage	12V	24V
Floating Charge Voltage	13.5V	27VDC
Overcharge Protection	16 Vdc/31Vdc	
Maximum Charge Current	100A	
SOLAR CHARGE		
Maximum PV Array Power	500W	
MPPT Range @Operating Voltage	15~48VDC	
Maximum PVArray Open Circuit Voltage	60VDC	
Maximum Charge Current	20A	
PHYSICAL		
Dimension D*W*H(mm)	470*410*210mm	
Net Weight(kgs)	8.0	
Communication interface	RS485/WIFI	
OPERATING ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non~ condensing)	
Operating Temperature	-20°C~50°C	
Storage Temperature	-20°C~60°C	

DUAL USE ON ONE INVERTER

EP4000L is working at 2 voltages and carrying different loads



Freely match 12VDC or 24VDC according to user needs(The maximum load is 2000W for 12v battery can carry, and the maximum load is 3500W for 24V battery can carry)

OFF GRID SOLAR INVERTER

EP-4200H



MODEL	EP-4200H	
Battery Voltage	12V	24V
Rated output power	2300VA/2300W	4200VA/4200W
Input	230VAC	
Voltage	170-280VAC(For Personal Computers)	
Selectable Voltage Range	90-280VAC(For Home Appliances)	
FrequencyRange	50Hz/60Hz(Auto Sensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC ±5%	
Surge Power	4600W	8400W
Efficiency(peak)Battery to INV	94%	
Transfer Time	10ms(For Personal Computers);20ms(For Home Appliances)	
BATTERY&AC CHARGE		
Battery Voltage	12V	24V
Floating Charge Voltage	13.5V	27VDC
Overcharge Protection	16 Vdc	32Vdc
Maximum Charge Current	100A	
SOLAR CHARGE		
Maximum PV Array Power	4000W	
MPPT Range @Operating Voltage	55-500VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charge Current	100A	
PHYSICAL		
DimensionD*W*H(mm)	480*400*200	
Net Weight(kgs)	8.0	
Communication interface	RS485/RS232/ BMS/WIFIBluetooth	
OPERATING ENVIRONMENT		
Humidity	5%to 95%RelativeHumidity(Non- condensing)	
Operating Temperature	-20°C~55°C	
Storage Temperature	-20°C~60°C	

KEY STRENGTHS

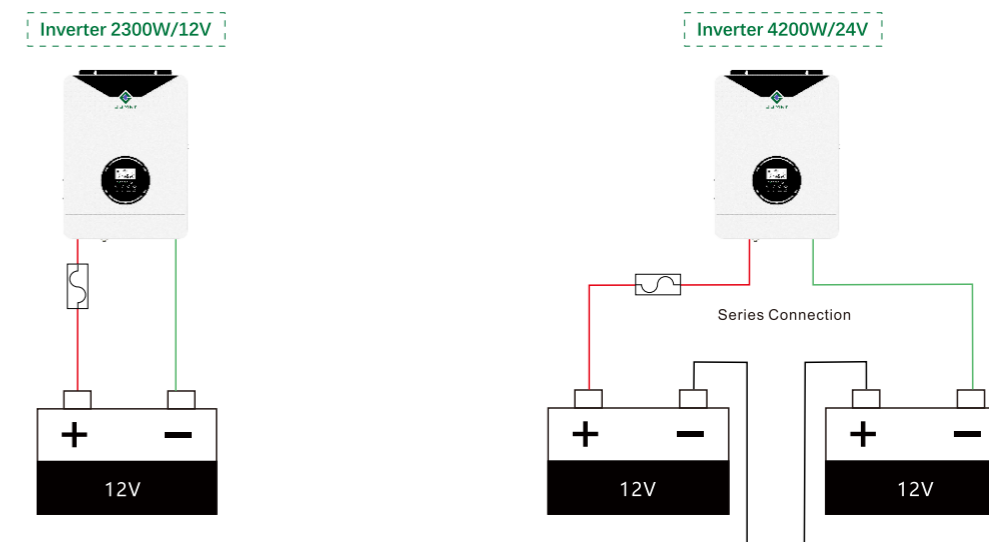


FEATURES

- Work at 2 different voltages : 12VDC or 24VDC. It can meet different loads needs of users
- Dual use on one inverter--World's first creation in 2025
- According to the requirements of load,the input voltage range of utility grid can be selected
- Solar energy and utility grid can power loads at the same time
- Automatic restart function when mains power is restored
- The intelligent charging design of battery makes the battery more fully utilized
- Cold start function
- Pure sine wave output inverter
- According to the battery requirements, the charging current can be set through LCD
- AC input is compatible with mains and generator
- Overload/Overtemperature/ short circuit protection
- RGB lights (optional)

DUAL USE ON ONE INVERTER

EP4200H is working at 2 voltages and carrying different loads



Freely match 12VDC or 24VDC according to user needs(The maximum load is 2300W for 12v battery can carry, and the maximum load is 4200W for 24V battery can carry)

OFF GRID SOLAR INVERTER

EP-4200H PRO



MODEL	EP-4200H PRO	
Battery Voltage	12V	24V
Rated output power	2300VA/2300W	4200VA/4200W
Input	230VAC	
Voltage	170~280VAC(For Personal Computers)	
Selectable Voltage Range	90~280VAC(For Home Appliances)	
Frequency Range	50Hz/60Hz(Auto Sensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC ±5%	
Surge Power	4600W	8400W
Efficiency(peak)Battery to INV	94%	
Transfer Time	10ms(For Personal Computers);20ms(For Home Appliances)	
BATTERY&AC CHARGE		
Battery Voltage	12V	24V
Floating Charge Voltage	13.5V	27VDC
Overcharge Protection	16 Vdc	32Vdc
Maximum Charge Current	100A	
SOLAR CHARGE		
Maximum PV Array Power	6000W	
MPPT Range @Operating Voltage	55~500VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charge Current	100A	
PHYSICAL		
Dimension D*W*H(mm)	480*400*200	
Net Weight(kgs)	8.0	
Communication interface	RS485/RS232/ BMS/WIFI/Bluetooth	
OPERATING ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non- condensing)	
Operating Temperature	-20°C~55°C	
Storage Temperature	-20°C~60°C	

KEY STRENGTHS

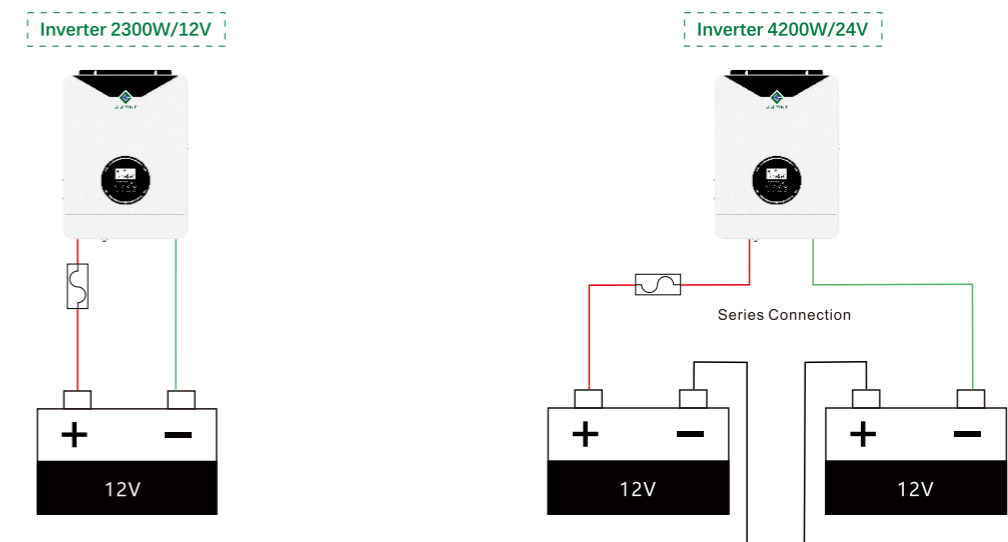


FEATURES

- Work at 2 different voltages : 12VDC or 24VDC. It can meet different loads needs of users
- Dual use on one inverter -- World's first creation in 2025
- According to the requirements of load, the input voltage range of utility grid can be selected
- Solar energy and utility grid can power loads at the same time
- Automatic restart function when mains power is restored
- The intelligent charging design of battery makes the battery more fully utilized
- Grid connection function
- Lithium battery activation function
- Cold start function
- Pure sine wave output inverter
- According to the battery requirements, the charging current can be set through LCD
- AC input is compatible with mains and generator
- Overload/Overtemperature/ short circuit protection
- RGB lights (optional)
- Machines can work without batteries
- Intelligent speed regulation of fan

DUAL USE ON ONE INVERTER

EP4200H PRO is working at 2 voltages and carrying different loads



Freely match 12VDC or 24VDC according to user needs(The maximum load is 2300W for 12v battery can carry, and the maximum load is 4200W for 24V battery can carry)

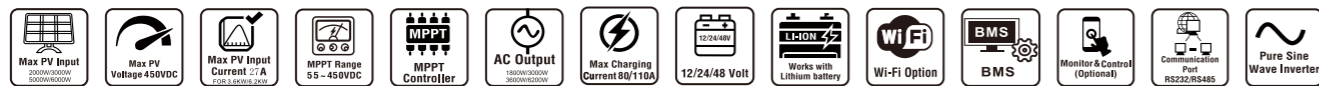
OFF GRID SOLAR INVERTER

SP SERIES



MODEL	SP-2200	SP-3200	SP-4200	SP-4200	SP-7000
Rated Power	2200VA/1800W	3200VA/3000W	4200VA/3800W	4200VA/3800W	7000VA/6200W
INPUT					
Voltage	230VAC				
Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)				
Frequency Range	50 Hz/60Hz(Auto sensing)				
OUTPUT					
AC Voltage Regulation(Batt.Mode)	230VAC±5%				
Surge Power	4000VA	6400VA	8400VA	8400VA	14000VA
Transfer Time	10ms(for personal computers);20ms(for home appliances)				
Waveform	Pure Sine Wave				
BATTERY & AC CHARGER					
Battery Voltage	12VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	13.5VDC	27VDC	27VDC	54VDC	54VDC
Overcharge Protection	15.5VDC	31VDC	31VDC	61VDC	61VDC
Maximum Charge Current	60A		80A	60A	80A
SOLAR CHARGER					
Max.PV Array Power	2000W	3000W	6000W		
MPPT Range @Operating Voltage	55~450VDC				
Maximum PV Array Open Circuit Voltage	450VDC				
Maximum Charging Current	80A		110A	80A	110A
Maximum Efficiency	98%				
PHYSICAL					
Dimension.H*W*D(mm)	405*286*98		423*290*101		423*290*106
Net Weight(kgs)	5	5.5	6.8	6.9	8
Communication Interface	Two communication One RS485 port for BMS ports;AnotherRS485/RS232 for remote monitoring				
OPERATING ENVIRONMENT					
Humidity	5%to 95%Relative Humidity(Non~condensing)				
Operating Temperature	-10°C to 55°C				
Storage Temperature	-15°C to 60°C				

KEY STRENGTHS

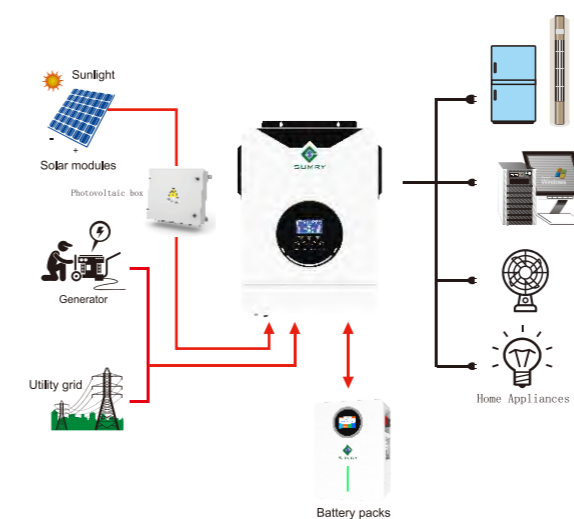


FEATURES

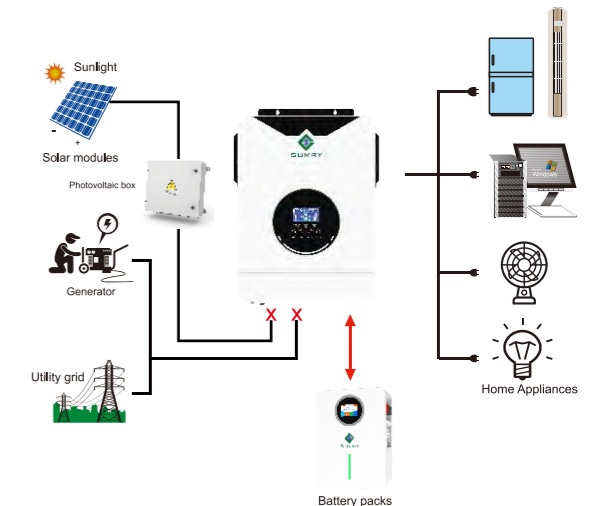
- Pure sine wave solar inverter
- High PV input voltage range(55~450VDC)
- Compatible with lithium-ion battery
- Smart battery charge design to optimize battery life
- Cold start function
- Built-in anti-dusk kit for harsh environmen (optional)
- Programmable supply priority for PV,battery or Grid
- Built-in Max 110A(3.8KW&6.2KW)MPPT solar charger
- Support BMS communication with Lithium battery
- Over load,high temperature,inverter output short circuit protection
- Intelligent fan speed adjustment
- WiFi&GPRS available for IOS and android

SOLAR SYSTEM CONNECTION

Operation with battery connected



Solar Power and AC Power not available



OFF GRID SOLAR INVERTER

RS SERIES



KEY STRENGTHS



FEATURES

- Pure sine wave solar inverter
- Two communication Ports for BMS and WiFi
- Inverter running with or without battery
- Lithium battery intelligent charge control system :adjust the inverter charging current according to the battery state
- Offline software upgrade function for adding new functions and fixing software errors
- Built in 80A and 110AMPPT solar charger
- Big LCD Screen with richer content
- RGB Lighting for different working mode
- Built-in Lithium Battery automatic activation
- Internal clock function for showing PV power generation and setting AC charging time and running loads time by user
- Wide PV input voltage range 55-450VDC
- WIFI available for loS and Android

MODEL	RS2200	RS3200	RS4200	RS4200	RS7000
PHASE	Single phase				
Maximum PV Input Power	2000W	3000W	6000W		
Rate Output Power	2200VA/1800W	3200VA/3000W	4200VA/3800W	4200VA/3800W	7000VA/6200W
Grid-Tie OPERATION					
PV INPUT(DC)					
Nominal DC Voltage/Maximum DC Voltage	360VDC/450VDC				
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC				
MPPT Voltage Range	60VDC-450VDC				
Maximum Input Current	10A				20A
GRID OUTPUT(AC)					
Nominal Output Voltage	230VAC				
Output Voltage Range	180VAC-280VAC				
Nominal Output Current	30A				
Power Factor	0.9 lag to 0.9 lead				
EFFICIENCY					
Maximum Conversion Efficiency(DC-AC)	96%				
OFF-GRID, HYBRID OPERATION					
PV INPUT(DC)					
Maximum DC Voltage	450VDC				
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC				
MPP Voltage Range	55VDC-450VDC				
Number Of MPPT/Maximum Input Current	1*10A		1*20A		
GRID OUTPUT(AC)					
Nominal Output Voltage	230VAC				
Nominal Output Current	7.8A	13A	16.5A	16.5A	27A
AC INPUT					
AC Start-up Voltage/Auto Restart Voltage	90VAC/120VAC				
AC Input Voltage Range	90VAC-280VAC				
Maximum AC Input Current	30A		40A		
BATTERY MODE OUTPUT(AC)					
Nominal Output Voltage	230VAC				
Efficiency	94%				
BATTERY & CHARGER					
DC Voltage Range	10VDC-15.5VDC	20VDC-31VDC		40VDC-60VDC	
Maximum Solar Charging Current	100A	110A	80A	110A	
Maximum AC Charging Current	80A	100A	60A	100A	
Maximum Charging Current	100A	110A	80A	110A	
GENERAL					
PHYSICAL					
Dimension,D*W*H(mm)	405*286*98		423*300*120		
Net Weight(kgs)	5.0	5.5	6.8	6.9	8.0
INTERFACE					
Communication Port	RS232/RS485/WIFI/BMS				
ENVIRONMENT					
Humidity	5%to 95%Relative Humidity(Non-condensing)				
Operating Temperature	-10°C ~ 50°C				
STANDARD					
Safety	CE:IEC-62109				

OFF GRID SOLAR INVERTER

LS SERIES



KEY STRENGTHS



FEATURES

- | WIFI&GPRS available for IOS and Android
- | PV input voltage range 20-150VDC(for 2000W)
30~150VDC(for 3200W)
- | Smart battery charge design to optimize battery life
- | Regular charging of municipal electricity
- | Statistical Power Generation
- | Controllable Discharge Current
- | Built-in 60A MPPT solar charger
- | Built-in anti-dust kit for harsh environment
- | Solar energy is provided directly to the load first
- | Output mode diversity to make better use of solar energy
- | Built-in Clock Function
- | Industry's First 12V with 2000w capacity

MODEL	LS-2000-12	LS-3200-24
PHASE	Single phase	
Maximum PV Input Power	900W	1800W
Rate Output Power	2000VA/2000W	3200VA/3200W
OFF-GRID		
PV INPUT(DC)		
Maximum DC Voltage	150VDC	
Start-up Voltage/Initial Feeding Voltage	20VDC	30VDC
MPP Voltage Range	20VDC-150VDC	
GRID OUTPUT(AC)		
Nominal Output Voltage	230VAC	
Nominal Output Current	8.7A	14A
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	90VAC/120VAC	
AC Input Voltage Range	90VAC-280VAC	
Maximum AC Input Current	30A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	230VAC	
Efficiency	94%	
BATTERY & CHARGER		
DC Voltage Range/Nominal Voltage	10VDC ~ 16VDC/12VDC	20VDC ~ 32VDC/24VDC
Maximum Solar Charging Current	60A	
Maximum AC Charging Current	80A	
Maximum Charging Current	140A	
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	416*291*112	
Package Dimension,D*W*H(mm)	490*370*190	
Net Weight(kgs)	6.6	7.0
Gross Weight(kgs)	7.5	7.9
ENVIRONMENT		
Humidity	5% ~ 95%Relative Humidity(Non-condensing)	
Operating Temperature	-10°C ~ 50°C	
STANDARD		
Safety	CE:IEC-62109	

OFF GRID SOLAR INVERTER

NMS SERIES



KEY STRENGTHS



FEATURES

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

MODEL	NMS-1000-12	NMS-1500-24
Rated Power	1000W/1000VA	1500W/1500VA
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	2000VA	3000VA
Efficiency(Peak)PVto 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.H*W*D(mm)	290*240*91	
Cartoon Dimension,H*W*D(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 to 50 °C	
STANDARD		
Compliance Safety	CE	

POWER INVERTER

RP1-6KW SERIES



KEY STRENGTHS



FEATURES

- Pure sine wave inverter
- Selectable high power charging current
- Compatible with generator power
- Overload and short circuit protection
- Wave by wave phase detection, more stable and reliable
- Supports the use lithium batteries
- Output power factor 1
- Configurable AC/battery input priority via
- Auto restart while AC is recovering
- Cold start function
- Smart fan running control to extend service life and reduce noise
- Color LCD display

MODEL	RP-1000	RP-2000	RP-3000	RP-4000	RP-5000	RP-6000
Rated Power	1000W	2000W	3000W	4000W	5000W	6000W

INPUT

Voltage	100Vac/110Vac/120Vac;220/230/240Vac					
Selectable Voltage Range	Wide Range:75vac~138Vac;155Vac~275Vac(for home appliances) Narrow Range:82Vac~138Vac;165Vac~275Vac(for personal computer)					
Frequency Range	40-70Hz(50Hz/60Hz)		100/110/120Vac(±5V);220/230/240Vac(±10V)			

OUTPUT

AC Voltage Regulation(Batt Mode)	100Vac/110Vac/120Vac(±5V);220Vac/230Vac/240Vac(±10V)					
Surge Power	2000VA	4000VA	9000VA	12000VA	15000VA	18000VA
Efficiency(Peak)	88%			91%		
Transfer Time	<20ms			<10ms		
Waveform	Pure sine wave					

BATTERY

Battery Voltage	12V	24V	12V/24V/48V	24V/48V	24V/48V	24V/48V
Charge Current	35A	35A	75A/50A/25A	70A/35A	75A/45A	75A/50A
Fast Charge Voltage	14.3VDCfor 12V(+2for 24V,+4for 48V)					
Float Charge Voltage	13.7VDCfor 12V(+2for 24V,+4for 48V)					
Battery Low Voltage Alarm	16.5VDCfor 12V(+2for 24V,+4for 48V)					
Over Voltage Protect	10.5VDCfor 12V(+2for 24V,+4for 48V)					
Battery Low Voltage Shutdown	10.0VDCfor 12V(+2for 24V,+4for 48V)					
Protection	Over charging,over temp,over battery voltage,over load,short-circuit					
Operating Environment Temperature	55°C					
Cooling	Intelligent Fan					
Display	LCD					
Specification Setting	By LCD or position machine: Charging current,battery type,input voltage,output frequency,wide and narrow of AC input voltage,power-saver model,AC priority or battery priority					

PHYSICAL

Dimension,(D*W*H)mm	390*221.6*178.5		495*257*192		607*345*198	
Net Weight(kgs)	11.4	15	25.2/24.6	34.4/33.8	37.9/38.2	41.6/40.5

ENVIRONMENT

Humidity	5~95%Relative humidity(No-condensing)					
Operating Temperature	-10~50°C					
Storage Temperature	-10~60°C					

POWER INVERTER

RP8-12KW SERIES



KEY STRENGTHS



FEATURES

- Pure sine wave inverter
- Selectable high power charging current
- Compatible with generator power
- Overload and short circuit protection
- Wave by wave phase detection, more stable and reliable
- Supports the use lithium batteries
- Output power factor 1
- Configurable AC/batteryinput priority via
- Auto restart while AC is recovering
- Cold start function
- Smart fan running control to extend service life and reduce noise
- Color LCD display

MODEL	RP-8000	RP-10000	RP-12000			
Rated Power	8000W	10000W	12000W			
INPUT						
Voltage	100Vac/110Vac/120Vac;220/230/240Vac					
Selectable Voltage Range	Wide Range:75vac~138Vac;155Vac~275Vac(for home appliances) Narrow Range:82Vac~138Vac;165Vac~275Vac(for personal computer)					
Frequency Range	40-70Hz(50Hz/60Hz)					
OUTPUT						
AC Voltage Regulation(Batt Mode)	100Vac/110Vac/120Vac;220Vac/230Vac/240Vac(±10V)					
Surge Power	24KVA	30KVA	36KVA			
Efficiency(Peak)	90%					
Transfer Time	<20ms					
Waveform	Pure sine wave					
BATTERY						
Battery Voltage	48V	96V	48V	96V	48V	96V
Charge Current	70A	35A	75A	40A	75A	50A
Fast Charge Voltage	57.2VDC for 48V(+2 for 96V)					
Float Charge Voltage	54.8VDC for 48V(+2 for 96V)					
Battery Low Voltage Alarm	42.0VDC for 48V(+2 for 96V)					
Over Voltage Protect	66.0VDC for 48V(+2 for 96V)					
Battery Low Voltage Shutdown	40.0VDC for 48V(+2 for 96V)					
Protection	Over charging,over temp,over battery voltage,over load,short-circuit					
Operating Environment Temperature	55°C					
Cooling	Intelligent Fan					
Display	LCD					
Specification Setting	By LCD or position machine: Charging current,battery type,input voltage,output frequency,wide and narrow of AC input voltage,power-saver model,AC priority or battery priority					
PHYSICAL						
Dimension,(D*W*H)mm	610*450*201					
Net Weight(kgs)	58.7/59	67/66.5	71.8/72			
ENVIRONMENT						
Humidity	5-95%Relative humidity(No-condensing)					
Operating Temperature	-10-50 °C					
Storage Temperature	-10-60 °C					

CAR INVERTER

SAK-II SERIES



KEY STRENGTHS

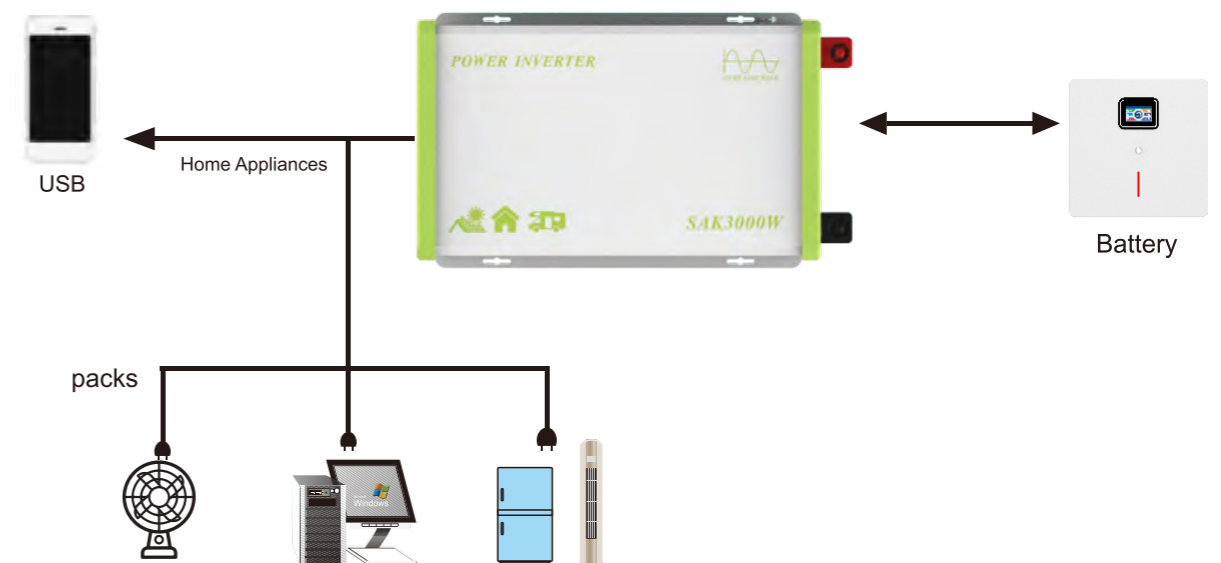


FEATURES

- Pure sine wave inverter
- Maximum efficiency 92%
- Protection function: input under voltage protection, input over voltage protection, overload protection, short circuit protection, over temperature protection
- Application: home, office, vehicle, yacht and other occasions
- Full power, not falsely labeled, operating at full load at an ambient temperature of 40°C

MODEL	SKII-1012E	SKII-2012E	SKII-3012E	SKII-2024E	SKII-3024E
PHASE	Single phase				
Rate Output Power	1200W	2000W	3000W	2000W	3000W
GRID OUTPUT(AC)					
Nominal Output Voltage	120VAC				
Nominal Output Frequency	50Hz				
Nominal Output Current	5.21A	8.69A	13A	8.69A	13A
BATTERY MODE OUTPUT(AC)					
Nominal Output Voltage	230VAC				
Efficiency	94%				
BATTERY					
DC Voltage Range/Nominal Voltage	10.5VDC-16VDC/12V			21VDC-32VDC/24VDC	
Maximum DC Input Current	100A	166.6A	250A	83.3A	125A
INTERFACE					
Communication Port	RS232/RS485/WIFI/BMS				
ENVIRONMENT					
Operating Temperature	-10 °C ~ 50°C				
STANDARD					
Safety	IEC-62109				
EMC	IEC-61000				

SYSTEM DIAGRAM



SOLAR CHARGER CONTROLLER

XMC SERIES



KEY STRENGTHS



FEATURES

- Built-in 140AMPPT solar charger(only for 24V/48V), 80AMPPT solar charger (only for 96V)
- Smart battery charge design to optimize battery life
- Timed charging
- Dual MPPT (only for 96V)
- PV input voltage range 60-500VDC
- Built-in anti-dust kit for harsh environment
- Countable power generation(day/month/year)

MODEL	XMC-140-24V	XMC-140-48V	XMC-80-96V
BATTERY			
Battery Voltage	24VDC	48VDC	96VDC
Floating Charge Voltage	27VDC	54VDC	118VDC
Overcharge Protection	31VDC	62VDC	124VDC
Charging Current	14	0A	80A
SOLAR CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	4200W	6500W	5400W+5400W
MPPT Range@Operating Voltage	60~450VDC		
Maximum PV Array Open Circuit Voltage	500VDC		
Number of MPPT Trakers/Maximum Input current	1/22A		2/18A
PHYSICAL			
Dimension,H*W*D(mm)	380*249*115		415*300*115
Cartoon Dimension,H*W*D(mm)	435*310*180		470*360*180
Net Weight(kgs)	5.6	5.8	7
Gross Weight(kgs)	6.2	6.4	7.6
OPERATING ENVIRONMENT			
Humidity	5%to 95%Relative Humidity(Non-condensing)		
Operating Temperature	-10°C~50°C		
STANDARD			
Compliance Safety	CE		

OEM/ODM SERIES

ON/OFF GRID SOLAR INVERTER

MAX SERIES



8200W/8200VA
10200W/10200VA

MAX PRO SERIES



8200W/8200VA
10200W/10200VA

MAX-BL SERIES



8200W/8200VA
10200W/10200VA

NM-ECO SERIES



4200W/4200VA
6200W/6200VA

NM-ECO-II SERIES



4200W/4200VA
6200W/6200VA

NM-ECO-LV SERIES



3600W/3600VA
(3000/3150/3300)
6200W/6200VA
(5300/5500/5700)

NM-ECO PRO SERIES



3600W/3600VA
4200W/4200VA
6200W/6200VA

ECO-BL SERIES



4200W/4200VA
6200W/6200VA

NM-V plus SERIES



4500W/4500VA
6500W/6500VA

MPS-VX SERIES



4500W
6500W

SCE SERIES



4.5KW/4.5KVA
6.5KW/6.5KVA
10KW/10KVA

OFF GRID SOLAR INVERTER

EP 2400L



1200VA/1200W
2400VA/2400W

EP 4000L



2000VA/2000W
3500VA/3500W

EP 4200H



2300VA/2300W
4200VA/4200W

SP SERIES



2200VA/1800W
3200VA/3000W
4200VA/3800W
7000VA/6200W

RS SERIES



2200VA/1800W
3200VA/3000W
4200VA/3800W
7000VA/6200W

LS SERIES



2000W/2000VA
3200W/3200VA

NML SERIES



2000VA/1600W
3200VA/3000W

NMS SERIES



1000W/1000VA
1500W/1500VA

POWER INVERTER

TITAN SERIES



3000W
5000W

MPPT CHARGER

XMC SERIES



140A
80A