- Off Grid inverter
- On Grid inverter with Energy Storage
- On Grid inverter
- Solar Charge Controller
- Inverter/Charger
- Inverter
- Portable Power Storage



Best Choice For Solar

BEST CHOICE FOR SOLAR

Easun Power Technology Corp Limited Web: https://www.easunpower.com

COMPANY PROFILE:

Easun Power Technology Corp Limited is a leading high-tech enterprise which established in Shenzhen, China in 2012. A professional and vigorous new energy company with dedication to bring green energy to the world.

We offers a full range of Solar product including: Solar inverters/ Solar Charge Controllers / Power inverters / Batteries/ Solar panels / Solar Accessories, etc. Our products are now capable of meeting requirements for both residential and commercial applications.

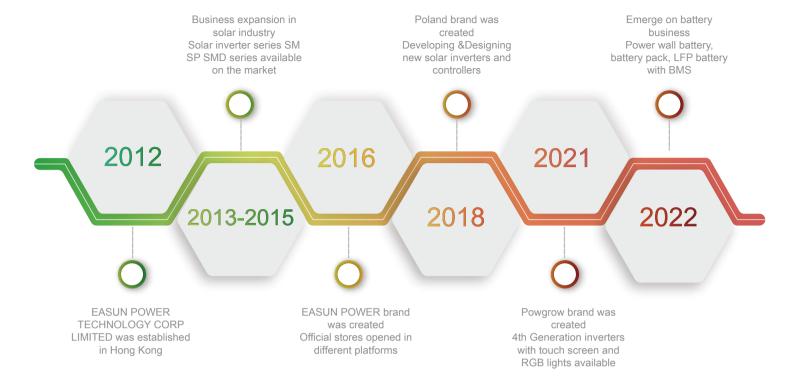
KEY VALUE:

BEST CHOICE FOR SILAR

As a team of professional and experienced specialists in the field of inverter charger, we have strong R&D, manufacture and quality control of our products, and commit to offer high quality products. We have a comprehensive sales & marketing network and experienced after-service center, commits to build mutual trust and make common progresses with our customers from all over the world.

Easun Power provides the best service for our customers and aims to be the leading inverter charger supplier in the world!

DEVELOPMENT HISTROY



CERTIFICATE:CE ROHS FCC ETL EMC



WHY EASUN



Industry Experience
10+ years
experience
in solar industry



Markets Share
4 million +
clientsfrom the
whole world



Overseas Warehouse
6 + overseas
warehouses located in
6 different continents



Global Partners 50+ cooperated global partners

EXCERLLENT SUPPORT

From pre-sales inquiries to after-sales support, our team will offer 24 hours 7 days in time service



Service Center



Question answer



System design



Installation Instructions



Product system upgrade



Perfect warranty



Market development support



Technical support for bidding projects

MARKETS SHARE



EASUN has provided solar products and related service to over 180 countries in the past 10 years, and we're aiming to provide more quality products and good service our clients.

To make sure our clients could get instant support, we now are co-operated with agents from different countries, also to expand our business we're looking for more partners to join us, let's work together and make a better business and life



INVERTER USING SCENARIO



Solar energy storage



Planting breeding base



Mountain communication base station



UPS uninterruptible power supply



Home energy storage



Communication base station energy storage



RV Outdoor Electricity



Medical System Equipment



CONTENTS

| OFF-GRID SOLAR INVERTER 220VAC |
|--------------------------------|
| 1000 Z000W GERRES |
| 2000-4000W SERIES |
| 5000-6000W SERIES |
| 8KW-11KW SERIES |
| IP65 SERIES |
| HYBRID SOLAR INVERTER 220VAC |
| 3000W SERIES |
| 5000-6000W SERIES |
| 3 PHASE 10KW 15KW SERIES |
| 3 PHASE 20-30KW SERIES |
| OFF-GRID SOLAR INVERTER 110VAC |
| 1000-4000W SERIES |
| 5000-8000W SERIES |
| HYBRID SOLAR INVERTER 110VAC |
| 3000-6000W SERIES |
| IP65 SERIES |
| SOALR CHARGE CONTROLLER |
| MPPT 10A-40A SERIES |
| MPPT 60A |
| MPPT 80A-100A SERIES |
| PWM 10A-100A SERIES |
| BATTERY |
| 5Kwh 10Kwh POWER WALL BATTERY |
| BATTERY PACK 5Kwh-100Kwh |
| LFP BATTERY |
| 12VDC LEAD ACID BATTERY |
| POWER/CAR INVERTER |
| PURE SINE WAVE |
| MODIFIED SINE WAVE |

ISOLAR INVERTER



- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers.
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance







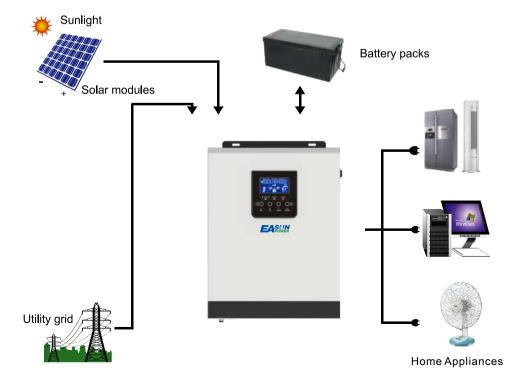




FM Radio

Solar Power

System connection diagram:



ISolar inverter Technical parameters

| MODEL | ISolar SMH 3KW | ISolar SPH 3KW | |
|---------------------------------------|---|----------------------------------|--|
| Rated Power | 3000VA/2400W | | |
| INPUT | | | |
| Voltage | 230VAC | | |
| Selectable Voltage Range | 70-280VAC(for personal computers | s) 90-280VAC(for home appliances | |
| Frequency Range | 50Hz/60Hz (A | Auto sensing) | |
| OUTPUT | | | |
| AC Voltage Regulation (Batt.Mode) | 230VA | C±5% | |
| Surge power | 600 | 0VA | |
| Efficiency(Peak) | 93 | % | |
| Transfer Time | 10ms (for personal computers |) 20ms (for home appliances) | |
| Wave form | Pure Sir | ne Wave | |
| BATTERY | | | |
| Battery Voltage | 24VDC | 24VDC | |
| Floating Charge Voltage | 27VDC | 27VDC | |
| Overcharge Protection | 31VDC | 30VDC | |
| SOLAR CHARGER | | | |
| Maximum PV Array Power | 1000W | 1200W | |
| Maximum PV Array Open Circuit Voltage | 102VDC | 80VDC | |
| MPPT Range @ Operating Voltage | 30-80VDC | 30-40VDC | |
| Maximum Solar Charging Current | 40A | 50A | |
| Maximum AC Charging Current | 20A o | r 30A | |
| Maximum Charging Current | 70A | 80A | |
| Standby Power Consumption | 2\ | N | |
| Maximum Efficiency | 98 | % | |
| PHYSICAL | | | |
| Dimension.D*W*H(mm) | 305*27 | 72*100 | |
| Net Weight (kgs) | 5.2kg | | |
| OPERATING ENVIRONMENT | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | |
| Operating Temperature | 0°C to 55°C | | |
| Storage Temperature | -15°C 1 | to 60°C | |

ISolar SPR 1-5KW PWM Solar Inverter



- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers.
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance

1kW=1kVA



Electric fan



PC

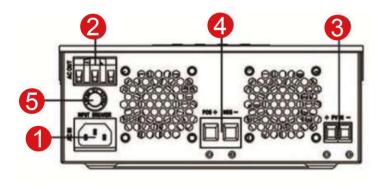


TV

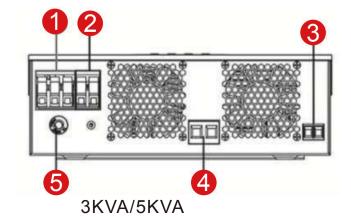


Solar Power





1KVA/2KVA



6

3KVA

- AC input
- AC output
- PV input
- 4 Battery input
- 6 Circuit breaker

ISolar SPR Technical parameters

Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

| Model | SPR 1K 12V SPR 3K 24V SPR 5K 4 | | | | |
|---------------------------------------|--|----------------------------|--------------------------|--|--|
| Rated Power | 1000VA/1000W 3000VA/3000W | | 5000VA/5000W | | |
| INPUT | | | | | |
| Voltage | | 230 VAC | | | |
| Selectable Voltage Range | 170-280 VAC (For Perso | nal Computers) ; 90-280 VA | AC (For Home Appliances) | | |
| Frequency Range | | 50 Hz/60 Hz (Auto sensing) |) | | |
| OUTPUT | | | | | |
| AC Voltage Regulation (Batt. Mode) | | 230VAC ± 5% | | | |
| Surge Power | 2000VA | 6000VA | 10000VA | | |
| Efficiency (Peak) | | 90%~93% | | | |
| Transfer Time | 10 ms (For Persor | nal Computers) ; 20 ms (Fo | r Home Appliances) | | |
| Waveform | | Pure sine wave | | | |
| BATTERY | | | | | |
| Battery Voltage | 12VDC | 24VDC | 48VDC | | |
| Floating Charge Voltage | 13.5VDC | 27VDC | 54VDC | | |
| Overcharge Protection | 16VDC | 33VDC | 63VDC | | |
| SOLAR CHARGER & AC CHARGER | | | | | |
| Solar Charger type | PWM | PWM | PWM | | |
| Maximum PV Array Open Circuit Voltage | 55VDC | 80VDC | 105VDC | | |
| Maximum PV Array Power | 600W | 1200W | 2400W | | |
| MPPT Range @ Operating Voltage | N/A | N/A | N/A | | |
| Maxmum Solar Charge Current | 50A | 50A | 50A | | |
| Maximum AC Charge Current | 20A | 25A | 60A | | |
| Maximum Charge Current | 50A | 70A | 110A | | |
| PHYSICAL | | | | | |
| Dimension, D x W x H (mm) | 88 x 225 x 320 | 100 x 285 x 334 | 100 x 300 x 440 | | |
| Net Weight (kgs) | 4.4 | 6.3 | 8.5 | | |
| Communication Interface | | USB/RS232 | | | |
| ENVIRONMENT | | | | | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | | | | |
| Operating Temperature | -10°C to 50°C | | | | |
| Storage Temperature | -15°C to 60°C | | | | |

ISolar SMV IV 3.6KW 5.6KW MPPT Solar Inverter



- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Built-in Wifi for mobile monitoring (App is available)
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Reserved communication port(RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Enhanced charging power
- · Built-in anti-dust kit

User-programmable RGB lighting for different operation mode

Three lighting effects





Orange











Cycling
Quickly scrolling with a color
of your choice in a continuous
circular motion

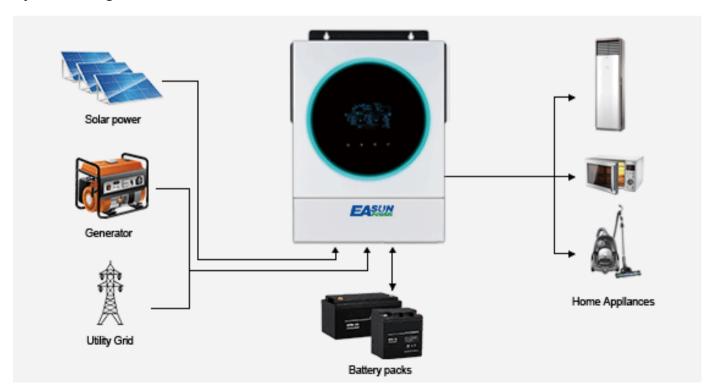


Wheel Illuminates with twinkling lights in a color of your choice



Chasing Radiates your selected color upward from the bottom of the ring

System Diagram



ISolar SMV-IV Off-Grid Inverter Selection Guide

| MODEL | ISolar SMV IV 3600-24 | ISolar SMV IV 5600-4 | |
|--|---|--------------------------------------|--|
| Rated Power | 3600VA/3600W | 5600VA/5600W | |
| INPUT | | | |
| Voltage | 230 VAC | | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers | s); 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (| Auto sensing) | |
| ОИТРИТ | | | |
| AC Voltage Regulation (Batt. Mode) | 230 VA | C ± 5% | |
| Surge Power | 7200VA | 11200VA | |
| Efficiency (Peak) | 90% - | 93% | |
| Transfer Time | 15 ms (For Personal Computers | ; 20 ms (For Home Appliances) | |
| Waveform | Pure sir | ne wave | |
| BATTE | | | |
| Battery Voltage | 24 VDC | 48 VDC | |
| Floating Charge Voltage | 27 VDC | 54 VDC | |
| Overcharge Protection | 33 VDC | 63 VDC | |
| SOLAR CHARGER & | | | |
| Solar Charger Type | MPPT | | |
| Maximum PV Array Power | 4000 W | | |
| MPPT Range @ Operating Voltage | 120 ~ 4 | 50 VDC | |
| Maximum PV Array Open Circuit Voltage | 500 | VDC | |
| Maxmum Solar Charge Current | 120 A | | |
| Maximum AC Charge Current | 100 A | | |
| Maximum Charge Current | 120 A | | |
| PHYSICAL | | | |
| Dimension, D x W x H (mm) | 115 x 30 | 00 x 400 | |
| Net Weight (kgs) | 9.0 | | |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact | | |
| OPERATING ENVIRONMENT | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | |
| Operating Temperature | -10°C to 50°C | | |
| Storage Temperature | -15°C to 60°C | | |
| Product specifications are subject to change without further | | | |

Product specifications are subject to change without further notice.

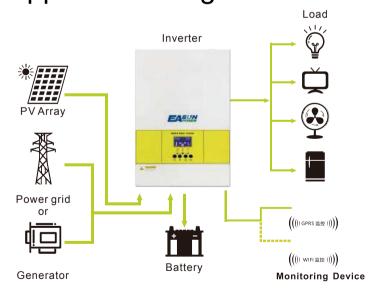
ISolar SMG II 3.6KW-5.6KP MPPT Solar Inverter



- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Buili-in MPPT solar controller
- Battery equalization function to optimize battery performance and extend lifecycle
- Inverter running without battery
- Built-in anti-dusk kit for harsh environment
- Parallel operation with up to 12 units
- WiFi/GPRS remote monitoring(Optional)
- Detachable LCD(Optional)

This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible size. Its comprehensive LCD display offers use-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

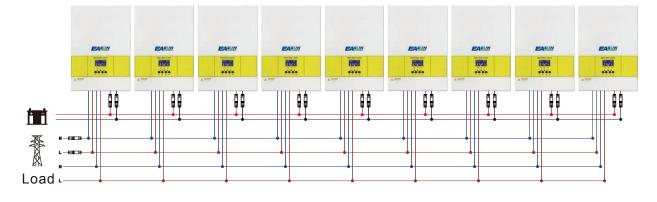
Application Diagram:





Mobile APP

Remote Control



System Diagram









- 1. With battery, solar and AC available
- 2. With battery, solar and AC not available
- 3. Without battery, solar available
- 4. Without battery, AC available

Technical Data

| MODEL | ISolar SMG II 3.6KW | ISolar SMG II 5.6KW | ISolar SMG II 5.6KP | |
|---------------------------------------|--|--|---------------------|--|
| CAPACITY | 3.6KVA/3.6KW | 5.6KVA/5.6KW | 5.6KVA/5.6KW | |
| Parallel Capability | NO | | | |
| NPUT | | | | |
| lominal Voltage | | 230VAC | | |
| cceptable Voltage Range | 170-280VAC (For p | ersonal Computer);90-280VAC(For Home | Appliances) | |
| requency | | 50/60 Hz (Auto sensing) | | |
| OUTPUT | | | | |
| Iominal Voltage | | 220/230VAC $\pm 5\%$ | | |
| Surge Power | 7000VA | 11000VA | 11000VA | |
| requency | | 50/60 Hz | | |
| Vaveform | | Pure Sine wave | | |
| ransfer Time | 10ms(For pe | ersonal Computer);20ms(For Home Applia | ances) | |
| Peak Efficiency (PV to INV) | | 96% | | |
| Peak Efficiency (Battery to INV) | | 93% | | |
| Overload Protection | 5s @ | >=150% load; 10s@110%~150% load | | |
| Crest Factor | | 3:1 | | |
| Admissible Power Factor | | 0.6~1 (inductive or capacitive) | | |
| BATTERY | | | | |
| Battery Voltage | 24VDC | 48VDC | 48VDC | |
| Floating Charge Voltage | 27VDC | 54VDC | 54VDC | |
| OverCharge Protection | 33VDC | 63VDC | 63VDC | |
| Charging Method | CC/CV | | | |
| Solar Charger & AC Charger | | · | | |
| Solar Charger TYPE | | MPPT | | |
| Max.PV Array Power | 4000W | 5500W | 5500 W | |
| Max. PV Array Open Circuit /oltage | | 500VDC | | |
| PV Array MPPT Voltage Range | | 120VDC~450VDC | | |
| Max. Solar Input Current | 15A | 18A | 18A | |
| Max. Solar Charge Current | 100A | 100A | 100A | |
| Max. AC Charge Current | 60A | 60A | 60A | |
| Max. Charge Current | 100A | 100A | 100A | |
| PHYSICAL | | | | |
| Dimensions, D x W x H(mm) | | 482x290x113 | | |
| Package Dimensions, D x W x | 565x380x190 | | | |
| Net Weight (Kgs) | 9 | 10 | 10 | |
| Communication Interface | USB/RS232/Dry-contact | | | |
| NVIRONMENT | | | | |
| Operating Temperature Range | -10°C to 50°C | | | |
| Storage temperature | -15°C∼ 60°C | | | |
| lumidity | 5% to 95% Relative Humidity (Non-condensing) | | | |

Product specifications are subject to change without further notice.

ISolar SMX II 3.6KW 5.6KW MPPT Solar Inverter



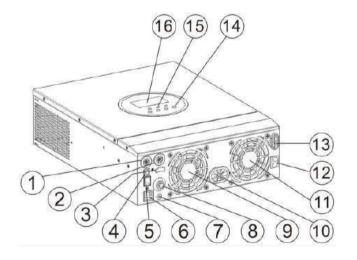
- Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- Two output modes: mains bypass and inverter output; uninterrupted power supply.
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- Advanced MPPT technology with an efficiency of 99.9%.
 With the charging requirement (voltage, current, mode) settings, and suitable for various types of energy storage batteries.

 ON/OFF rocker switch for AC output control.
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- Lithium battery activation design, allowing access of lead-acid battery and lithium
- battery.

 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and over current.
- Supply of a variety of user-friendly communication modules, such as RS485(GPRS, WiFi), USB etc., and suitable for computer, mobile phones, Internet monitoring as well as remote operations.
- Lithium battey can be activated by both mains and PV.

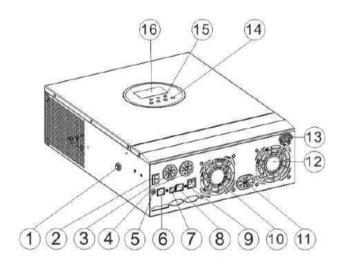
HF series is a new all-in-one hybrid solar charge inverter, which integrates solar energy storage &means charging energy storage and AC sine wave output. Thanks to DSP control and advanced controlalgorithm, it has high response speed, high reliability and high industrial standard.

Appearance 3.6KW:



| 1 | AC input port | | C ooling fan |
|-----|---------------------------|----|----------------------|
| 2 | AC output port | 10 | Battery port |
| 3 | CAN communication port | | C ooling fan |
| 4 | USB communication port | 12 | ON/OFF rocker switch |
| (5) | Rs 485 communication port | 13 | PV port |
| 6 | Dry contact port | | Touch button |
| 7 | 7 Grounding screw hole | | LED Indicator |
| 8 | Overload protector | 16 | LCD s creen |

Appearance 5.6KW:



| 1 | Overload protector | | Dry contact port | |
|-----|-----------------------------|----|-----------------------|--|
| 2 | ON/OFF rocker switch | 10 | Cooling fan | |
| 3 | 3 AC input port | | Battery port | |
| 4 | AC output port | | Cooling fan | |
| (5) | Grounding screw hold | | PV port | |
| 6 | RS 485-2 communication port | | Touch the key lightly | |
| 7 | USB communication port | | Indicator light | |
| 8 | RS 485-1 communication port | 16 | LCD screen | |

ISolar SMX II Technical parameters

| Models | ISolar-SMX-II-3.6KW | ISolar-SMX-II-5.6KW | | | |
|--|---|---|--|--|--|
| AC mode | | TOCIAL CHIECH TOCICION | | | |
| Rated input voltage | 220/230Vac | | | | |
| Input voltage range | (170Vac~280Vac) ±2%; (90Vac-280Vac)±2% | | | | |
| Frequency | | Auto detection) | | | |
| Frequency Range | | /57±0.3Hz ~ 65±0.3Hz (60Hz); | | | |
| Overload/short circuit protection | | breaker | | | |
| Efficiency | | 5% | | | |
| Conversion time (bypass and inverter) | _ | (typical) | | | |
| | | ilable | | | |
| AC reverse protection | | | | | |
| Maximum bypass overload current | 30A | 40A | | | |
| Inverter mode | | | | | |
| Output voltage waveform | | ne wave | | | |
| Rated output power (VA) | 3600 | 5600 | | | |
| Rated output power (W) | 3600 | 5600 | | | |
| Power factor | 1 | 1 | | | |
| Rated output voltage (Vac) | 230Vac | 230Vac (200/208/220/240Vac settable) | | | |
| Output voltage error | ±5% | | | | |
| Output frequency range (Hz) | 50Hz ± 0.3Hz/60Hz ± 0.3Hz | 50Hz ± 0.3Hz/60Hz ± 0.3Hz | | | |
| Efficiency | >92% | >90% | | | |
| Peak power | 6000VA | 10000VA | | | |
| Loaded motor capability | 2HP | 4HP | | | |
| Output short circuit protection | Circuit breaker | Circuit breaker | | | |
| Bypass breaker specifications | 30A | 40A | | | |
| Rated battery input voltage | 24V (Minimum starting voltage 22V) | 48V (minimum start voltage 44V) | | | |
| Battery voltage range | | ervoltage alarm/shutdown voltage | | | |
| , , , | | overvoltage alarm /overvoltage recovery settable on LCD screen) | | | |
| Power saving mode | Load ≤50W | | | | |
| AC charging | | | | | |
| Battery type | Lead acid or | lithium battery | | | |
| Maximum charge current | 80A | 60A | | | |
| Charge voltage range | 20.0Vdc~33Vdc | 40~60Vdc | | | |
| Short circuit protection | Circuit breaker and blown fuse | Breaker and blown fuse | | | |
| Circuit breaker specifications | 30A | 40A | | | |
| Overcharge protection | Alarm and turn off ch | narging after 1 minute | | | |
| PV charging | | | | | |
| Maximum PV open circuit voltage | 500Vdc | 500Vdc | | | |
| PV operating voltage range | 120-500Vdc | 120-500Vdc | | | |
| MPPT voltage range | 120-450Vdc | 120-450Vdc | | | |
| Battery voltage range | 20-33Vdc | 40-60Vdc | | | |
| Maximum intput power | 4000W | 6000W | | | |
| PV charging current range (can be set) | 0-80A | 0-80A | | | |
| Charging short circuit protection | Blown fuse | Blown fuse | | | |
| Wiring protection | Reverse polarity protection | Inverse wiring protection | | | |
| Certified specifications | 1 tovolco polarity proteotion | 1 | | | |
| Certification | CE/IEC | 62109-1) | | | |
| EMC certification level | | | | | |
| | EN61000, C2 -15°C to 55°C | | | | |
| Operating temperature range | | | | | |
| Storage temperature range | -25°C ~ 60°C | | | | |
| Humidity range | 5% to 95% (Conformal coating protection) | | | | |
| Noise | ≤60dB | | | | |
| Heat dissipation | Forced air cooling, variable speed of fan | | | | |
| Communication interface | USB/CAN/RS485(WiFi/GPRS)/Dry node control | | | | |
| Size (L*W*D) | 378mm*280mm*103mm | 426mm*322mm*126mm | | | |
| Weight (kg) | 6.9 | 10.9 | | | |

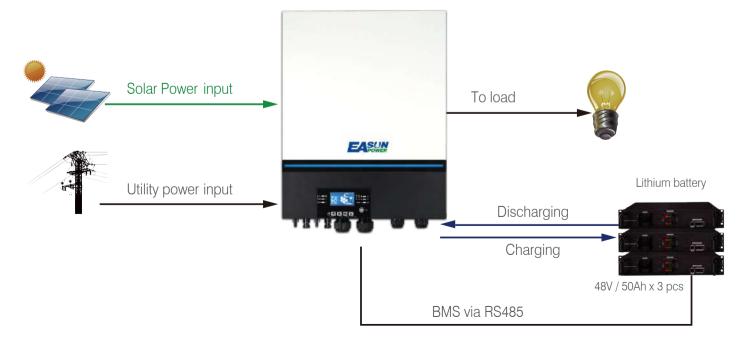
ISolar SMW 8KW 11KW MPPT Solar Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- · Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Selectable high power charging current
- · Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on (only for 8K model)
- · Parallel operation with 6 units



System Diagram:



ISolar SMW 8K 11K Off-Grid Inverter Selection Guide

| MODEL | ISolar SMW 8KW | ISolar SMW 11KW | |
|---------------------------------------|---|---|--|
| RATED POWER | 8000VA/8000W | 11000VA/11000W | |
| PARALLEL CAPABILITY | YES, 6 units | | |
| INPUT | | | |
| Voltage | 230 | VAC | |
| Selectable Voltage Range | | Personal Computers) Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (| Auto sensing) | |
| ОИТРИТ | | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | 230VAC ± 5% | |
| Surge Power | 16000VA | 22000VA | |
| Efficiency (Peak) | 93 | 3% | |
| Transfer Time | 10 ms (For Personal Computers | s), 20 ms (For Home Appliances) | |
| Waveform | Pure sir | ne wave | |
| Optional DC Voltage | 12 VDC ± 5%, 100W | N/A | |
| BATTERY | | | |
| Battery Voltage | 48 VDC | 48 VDC | |
| Floating Charge Voltage | 54 VDC | 54 VDC | |
| Overcharge Protection | 66 VDC | 63 VDC | |
| SOLAR CHARGER & AC CHARGER | | | |
| Solar Charger Type | MF | PPT | |
| Maximum PV Array Power | 8000W (4000W x 2) | 11000W (5500W x 2) | |
| MPPT Range @ Operating Voltage | 90 ~ 450 VDC | 90 ~ 450 VDC | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | 500 VDC | |
| Maximum PV Input Current | 27A x 2(N | MAX 40A) | |
| Maxmum Solar Charge Current | 120A | 150A | |
| Maximum AC Charge Current | 120A | 150A | |
| Maximum Charge Current | 120A | 150A | |
| PHYSICAL | | | |
| Dimension, D x W x H (mm) | 147.4 x 43 | 2.5 x 553.6 | |
| Net Weight (kgs) | 18 | 3.4 | |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact | | |
| OPERATING ENVIRONMENT | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | |
| Operating Temperature | -10°C to 50°C | | |
| Storage Temperature | -15°C to 60°C | | |
| STANDARD | | | |
| Compliance Safety | CE | CE | |
| | | · | |

Product specifications are subject to change without further notice.

ISolar SMW-II 8KW MPPT Solar Inverter



- Customizable status LED bar with RGB lights
- Touchable button with large 5" colored LCD
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging currentCompatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on
- Parallel operation with 6 units

User-programmable RGB lighting for different operation mode















Three lighting effects



Cycling Quickly scrolling with a color of your choice in a continuous circular motion

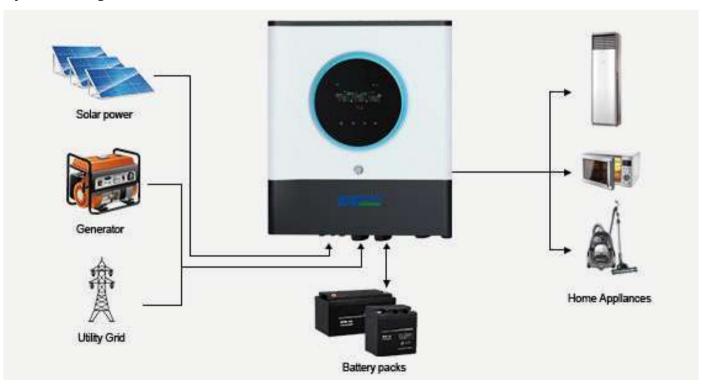


Wheel Illuminates with twinkling lights in a color of your choice



Chasing Radiates your selected color upward from the bottom of the ring

System Diagram



ISolar SMW II OFF-Grid Inverter Specification

| MODEL | ISolar SMW II 8000 | |
|---------------------------------------|--|--|
| Rated Power | 8000VA/8000W | |
| Parallel Capability | YES, 6 units | |
| INPUT | | |
| Voltage | 230 VAC | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| ОИТРИТ | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | |
| Surge Power | 16000VA | |
| Efficiency (Peak) | 93% | |
| Transfer Time | 15 ms (For Personal Computers); 20 ms (For Home Appliances) | |
| Waveform | Pure sine wave | |
| No Load Power Consumption | < 70W | |
| DC Voltage | 12 VDC ± 5%, 100W | |
| BATTERY | | |
| Battery Voltage | 48 VDC | |
| Floating Charge Voltage | 54 VDC | |
| Overcharge Protection | 66 VDC | |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger Type | MPPT | |
| Maximum PV Array Power | 8000W (4000W x 2) | |
| MPPT Range @ Operating Voltage | 90 ~ 450 VDC | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | |
| Maxmum Solar Charge Current | 150A | |
| Maximum AC Charge Current | 120A | |
| Maximum Charge Current | 150A | |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 158.4 x 502.5 x 530.8 | |
| Net Weight (kgs) | 20 | |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact | |
| OPERATING ENVIRONMENT | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | |
| Operating Temperature | -10°C to 50°C | |
| Storage Temperature | -15°C to 60°C | |
| STANDARD | | |
| Compliance Safety | CE | |

Product specifications are subject to change without further notice.

ISolar SWP Off-Grid Inverter MPPT Solar Inverter



- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Built-in WiFi for mobile monitoring (APP is available)
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- · Compatible to Utility Mains or generator input
- Parallel operation up to 6 units

This hybrid PV inverter can provide power to connected loads by utilizing PV power, utility power and battery power.

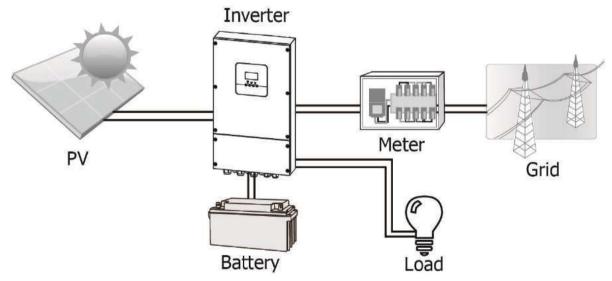


Figure 1 Basic hybrid PV System Overview

Depending on different power situations, this hybrid inverter is designed to generate continuous power from PV solar modules (solar panels), battery, and the utility. When MPP input voltage of PV modules is within acceptable range (see specification for the details), this inverter is able to generate power to feed the grid (utility) and charge battery. **Never connect the positive and negative terminals of the solar panel to the ground.** See Figure 1 for a simple diagram of a typical solar system with this hybrid inverter.

ISolar SWP OFF-Grid Inverter Specification

| MODEL | ISolar SWP 8000 | | | |
|---------------------------------------|--|--|--|--|
| RATED POWER | 8000VA/8000W | | | |
| PARALLEL CAPABILITY | Yes, up to 6 units | | | |
| INPUT | | | | |
| Voltage | 230 VAC | | | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) | | | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | | | |
| OUTPUT | | | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | | | |
| Surge Power | 16000VA | | | |
| Efficiency (Peak) | 90% ~ 93% | | | |
| Transfer Time | 15 ms (For Personal Computers); 20 ms (For Home Appliances) | | | |
| Waveform | Pure sine wave | | | |
| No Load Power Consumption | < 70W | | | |
| BATTERY | | | | |
| Battery Voltage | 48 VDC | | | |
| Floating Charge Voltage | 54 VDC | | | |
| Overcharge Protection | 66 VDC | | | |
| SOLAR CHARGER & AC CHARGER | | | | |
| Solar Charger Type | MPPT | | | |
| Maximum PV Array Power | 8000W (4000W x 2) | | | |
| MPPT Range @ Operating Voltage | 90 ~ 450 VDC | | | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | | | |
| Maxmum Solar Charge Current | 120 A | | | |
| Maximum AC Charge Current | 120 A | | | |
| Maximum Charge Current | 120 A | | | |
| PHYSICAL | | | | |
| Dimension, D x W x H (mm) | 200 x 435 x 665 | | | |
| Net Weight (kgs) | 33 | | | |
| Communication Interface | USB / RS232 / RS485 / Dry-contact / WiFi | | | |
| OPERATING ENVIRONMENT | | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | | |
| Operating Temperature | -10°C to 50°C | | | |
| Storage Temperature | -15°C to 60°C | | | |
| STANDARD | | | | |
| Compliance Safety | CE | | | |

IGrid SV II SERIES Hybrid Solar Inverter



- Pure sine wave inverter
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
 User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units only for 2KW/3KW 5KW/6KW models
- Battery Independent system
- Dual outputs selected as either programmable output or generator input

Hybrid operation

With battery connected

Without battery connected





Interface introduction

IGrid SV II On-Grid Inverter With Energy Storage Selection Guide

| MODEL | IGrid SV II 1.5KW | IGrid SV II 2KW | IGrid SV II 3KW | IGrid SV II 5KW |
|--|-----------------------------|------------------------|--------------------------|-------------------|
| Max. PV Array Power | 2000W | 3000W | 4000W | 5000W |
| Rated Output Power | 1500W | 2000W | 3000W | 5000W |
| Maximum PV Array Open Circuit Voltage | 400 VDC | 450 VDC | 450 VDC | 450 VDC |
| MPPT Range @ Operating Voltage | 120 VDC ~ 380 VDC | 90 VDC ~ 430 VDC | 120 VDC ~ 430 VDC | 120 VDC ~ 430 VDC |
| MPP Tracker Number | 1 | 1 | 1 | 1 |
| GRID-TIE OPER | | | | |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | | 220/230 | /240 VAC | |
| Output Voltage Range | | 184 - 264.5 VAC or 195 | 5 - 253 VAC (Selectable) | |
| Nominal Output Current | 6.5A | 8.7A | 13A | 21.7A |
| Power Factor | | >(|).99 | |
| EFFICIENCY | | | | |
| Maximum Conversion Efficiency (DC/AC) | 95% | 95% | 95% | 95% |
| OFF-GRID, HYBRID OPER | · | | | |
| GRID INPUT | | | | |
| Acceptable Input Voltage Range | | 90 - 280 VAC o | r 170 - 280 VAC | |
| Frequency Range | | 50 Hz/60 Hz | (Auto sensing) | |
| Maximum AC Input Current | 30A | 30A | 40A | 40A |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | | 220/230 | /240 VAC | |
| Output Waveform | | Pure si | ne wave | |
| Efficiency (DC to AC) | | 93 | 3% | |
| BATTERY & CHARGER | | | | |
| Nominal DC Voltage | | 48 ' | VDC | |
| Maximum Solar Charge Current | 30 A | 60 A | 60 A | 80 A |
| Maximum AC Charge Current | 40 A | 60 A | 60 A | 80 A |
| Maximum Charge Current | 40 A | 60 A | 60 A | 80 A |
| GENERAL | · | | | |
| PHYSICAL | | | | |
| Dimension, D x W x H (mm) | 100 x 300 x 440 | 120 x 295 x 468 | 120 x 295 x 468 | 120 x 295 x 468 |
| Net Weight (kgs) | 8 | 11 | 11 | 12 |
| INTERFACE | | | | |
| Parallel Function | N/A | Yes, 9 units | Yes, 9 units | Yes, 9 units |
| Communication Ports | USB, RS-232 and dry contact | | | |
| ENVIRONMENT | | | <u> </u> | |
| Humidity | 0 ~ 90% RH (Non-condensing) | | | |
| Operating Temperature | -10°C to 50°C | | | |
| Product specifications are subject to change w | ithout further notice. | | | |

IGrid SV IV 3.6KW 5.6KW Hybrid Solar Inverter



- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operationmodes:Grid-tie, off-gridand grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Parallel operation up to 9 units

4 System Diagram for Optional

Operation with battery connected



Operation without battery connected







IGrid SV IV On-Grid Inverter with Energy Storage Selection Guide

| MODEL | IGrid SV-IV 3.6KW | IGrid SV-IV 5.6KW | |
|--|---|-------------------------------------|--|
| PHASE | | 1-phase in / 1-phase out | |
| MAXIMUM PV INPUT POWER | 5000W | 6000W | |
| RATED OUTPUT POWER | 3600W 5600W | | |
| MAXIMUM CHARGING POWER | 5000W 6000W | | |
| GRID-TIE OPERATION | | | |
| PV INPUT (DC) | | | |
| Nominal DC Voltage / Maximum DC Voltage | 360 VDC / 500 VDC | 360 VDC / 450 VDC | |
| Start-up Voltage / Initial Feeding Voltage | 110VDC / 120 VDC | 110VDC / 120 VDC | |
| MPP Voltage Range | 120 VDC ~ 430 VDC 120 VDC 120 VDC 120 VDC ~ 430 VDC | | |
| Number of MPP Trackers / Maximum Input Current | 1 / 18 A | 1 / 27 A | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | | 220/230/240 VAC | |
| Output Voltage Range | 184 - 264.5 V | /AC or 195.5 - 253 VAC (Selectable) | |
| Nominal Output Current | 15.6A | 24.3A | |
| Power Factor | | > 0.9 | |
| EFFICIENCY | | 0.0 | |
| Maximum Conversion Efficiency (DC/AC) | 96% | 96% | |
| OFF-GRID OPERATION | | | |
| AC INPUT | | | |
| AC Start-up Voltage / Auto Restart Voltage | 1 | 20 - 140 VAC / 180 VAC | |
| Acceptable Input Voltage Range | | 280 VAC or 170 - 280 VAC | |
| Maximum AC Input Current | 40 A | 40 A | |
| PV INPUT (DC) | 7V A | Ι ΤυΛ | |
| Maximum DC Voltage | 500 VDC | 450 VDC | |
| MPP Voltage Range | 120 VDC ~ 430 VDC | 120 VDC ~ 430 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1/18 A | 1/20 VDC ~ 450 VDC | |
| · | 1/ 10 A | 1727 A | |
| BATTERY MODE OUTPUT (AC) | | 000/000/040 \ / A O | |
| Nominal Output Voltage | | 220/230/240 VAC | |
| Output Waveform | 000/ | Pure sinewave | |
| Efficiency (DC to AC) | 93% | 93% | |
| HYBRID OPERATION | | | |
| PV INPUT (DC) | 000) (D.0.) (D.0.) | 000 VPQ / 450 VPQ | |
| Nominal DC Voltage / Maximum DC Voltage | 360 VDC / 500 VDC | 360 VDC / 450 VDC | |
| Start-up Voltage / Initial Feeding Voltage | 110VDC / 120 VDC | 110VDC / 120 VDC | |
| MPP Voltage Range | 120 VDC ~ 430 VDC | 120 VDC ~ 430 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 18 A | 1 / 27 A | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | | 220/230/240 VAC | |
| Output Voltage Range | | /AC or 195.5 - 253 VAC (Selectable) | |
| Nominal Output Current | 15.6A | 24.3A | |
| AC INPUT | | | |
| AC Start-up Voltage / Auto Restart Voltage | | 20 - 140 VAC / 180 VAC | |
| Acceptable Input Voltage Range | | 280 VAC or 170 - 280 VAC | |
| Maximum AC Input Current | 40A | 40A | |
| BATTERY MODE OUTPUT (AC) | | | |
| Nominal Output Voltage | | 220/230/240 VAC | |
| Efficiency (DC to AC) | 93% | 93% | |
| BATTERY & CHARGER | | | |
| Nominal DC Voltage | 48 VDC | 48 VDC | |
| Maximum Solar Charging Current | 100A | 120A | |
| Maximum AC Charging Current | 100A 120A | | |
| Maximum Charging Current | 100A 120A | | |
| GENERAL | | | |
| PHYSICAL | | | |
| Dimension, D x W x H (mm) | | 140 x 295 x 468 | |
| Net Weight (kgs) | 11 | 12 | |
| NTERACE | | ' | |
| Parallel Function | | Yes, 9 units | |
| Communication Port | USB/RS232/RS485/Wifi/Dry-contact | | |
| ENVIRONMENT | | | |
| Humidity | 0 ~ | 90% RH (Non-condensing) | |
| Operating Temperature | | -10 to 50°C | |
| opolating formporaturo | -10 to 50°C | | |

IGrid SMP 5KW Hybrid Solar Inverter



- Max.can be 9 pcs in parallel with optional kit
- Efficiently work with or without battery
- MPPT Solar Charge Controller up to 5000W solar panel
- Built in Wifi for mobile monitoring (Requires APP)
- Compatible with (Li-ion,LiFePo4 and etc.) batteries with BMS
- Battery Equalization

4 System Diagram for Optional

Operation with battery connected



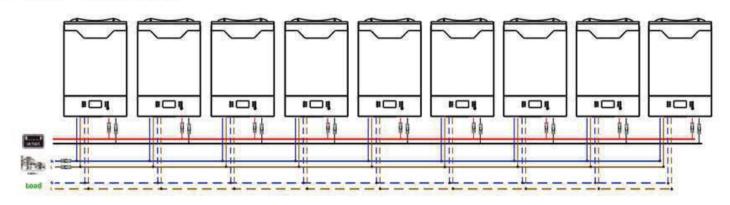
Operation without battery connected







Parallel Operation in Single phase Nine inverters in parallel Power Conection



IGrid SMP Technical parameters

| Model | SMP 5KW | | | |
|---|--|--|--|--|
| Rated Power | 5000VA/5000W | | | |
| INPUT | | | | |
| Voltage | 230VAC | | | |
| Voltage Range | 176-280 VAC at 100% load | | | |
| Voltage Range | 110-280 VAC at 50% load | | | |
| Frequency Range | 50Hz/60Hz(Auto sensing) | | | |
| OUTPUT | | | | |
| AC Voltage Regulation(Batt.Mode) | 230VAC±3% | | | |
| Surge Power | 10400VA for 5 sec | | | |
| Efficiency(Peak) | >95% (Rated R load, battery full charged | | | |
| Transfer Time | 10ms typical (UPS) | | | |
| Transfer Time | 20ms typical (Appliances) | | | |
| Waveform | Pure sine wave | | | |
| BATTERY | | | | |
| Battery Voltage | 48 VDC | | | |
| Floating Charge Voltage | 54 VDC | | | |
| Overcharge Protection | 64 VDC | | | |
| SOLAR CHARGER & AC CHARGER | | | | |
| Solar Charger Type | MPPT | | | |
| Maximum PV Array Open Circuit Voltage | 500VDC | | | |
| Maximum PV Array Power | 5000W | | | |
| MPP Range@ Operating Voltage | 120-450VDC | | | |
| Maxmum Solar Charge Current | 80A | | | |
| Maximum AC Charge Current | 60A | | | |
| PHYSICAL | | | | |
| Products Dimension,D X W X H (mm) | 456*303*147 | | | |
| Product Net Weight(kgs) | 12 | | | |
| Packing Dimension,D X W X H (mm) | 530*377*217,1PC/CTN | | | |
| Product Net Weight(kgs) | 13.5 | | | |
| Communication Interface | Removable OTG USB/RS232/RS458/BLE/Dry-contact,BMS interface, | | | |
| OPERATING ENVIRONMENT | | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | | |
| Operating Temperature | -10°C to 50°C | | | |
| Storage Temperature | -15℃ to 60℃ | | | |
| *Product specifications are subject to change without fur | ther notice | | | |

IGrid VE II 3KW 5.5KW Hybrid Solar Inverter



- Touch screen display
- PV and utility power the load at same time (can setting)
- Output power factor PF=1.0
- On&Off Grid with energy storage
- Energy generated record, load record, history information and fault record
- · Structure with dust filter
- AC charging start and stop time setting
- · External Wi-Fi device optional
- Parallel operation up to 9 units
- · Connected with battery optional
- Wide PV input range 120-450 VDC
- Independent CPU
- MAX PV Array power 5000W
- · Solar and Utility supply power to the load When solar power is not sufficient to load
- The CT sensor will monitor the power consumption of the system and will make sure no excess PV power is delivered to the Grid













AC input AC output

PV input

ON/OFF switch

DC input

Parallel connection terminal

CAN

Dry contactor

СТ

Wifi

USB

RS232

Product Snapshot

Model: 3-5.5kW

Frequency Range: 50Hz/60Hz



Touch Display Screen

WIFI

Hybrid Operation

With battery connected

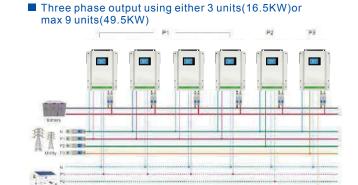


Without battery connected



■Single phase output up to 49.5KW using 9 units





IGrid VE II Series

Wall Mounted Integrated Solar Power Inverter Technical Specification Built-in MPPT Solar Controller

| Built-in MPPT Solar Controller | | | | |
|--------------------------------|--|----------------------|--|--|
| MODEL | IGrid VE II 3K 24V | IGrid VE II 5.5K 48V | | |
| Max PV Array Power | 5500W | | | |
| Rated Output Power | 3000W | 5500W | | |
| MPPT Range @ Operating Voltage | 120-450VDC | | | |
| GRID-TIE OPERATION | | | | |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | 220/230/ | /240VAC | | |
| Output Voltage Range | 184-26 | 65VAC | | |
| Nominal Output Current | 13.6A/13.0A/12.5A | 20.5A/19.6A/18.8A | | |
| Efficiency | Up to | 93% | | |
| OFF-GRID, HYBRID OPERATION | | | | |
| GRID INPUT | | | | |
| Acceptable Input Voltage Range | 120-280VAC or 170-280 VAC | | | |
| Frequency Range | 50Hz/60Hz (Auto sensing) | | | |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 220/230/240VAC | | | |
| Output Wave Form | Pure sine wave | | | |
| BATTERY & CHARGER | | | | |
| Nominal DC Voltage | 24VDC | 48VDC | | |
| Maximum AC Charge Current | 60A | | | |
| Maximum Charge Current(AC+PV) | 90 |)A | | |
| Emergency output power | | | | |
| Maximum output Power | 3000W | 5500W | | |
| Surge Power | 6000W | 11000W | | |
| Automatic Transfer Time | <10ms | | | |
| GENERAL | | | | |
| INTERFACE | | | | |
| Parallel Function | Yes | | | |
| Communication | USB or RS232,WIFI, Generator dry-Contact | | | |
| ENVIRONMENT | | | | |
| Humidity | 0~90% RH (No Condensing) | | | |
| Operating Temperature | 0 to 50℃ | | | |
| Net Weight(KG) | 11.75 | 11.9 | | |
| Gross Weight(KG) | 12.75 | 13.1 | | |
| Dimension (W x D x H)mm | 345x476x133.2 | | | |

IGrid: On-Grid Inverter with Energy Storage

Innovative and Cost-effective Power Solution



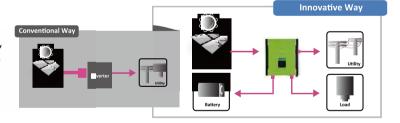
- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units for 5KW and 10KW

IGrid is a flexible and intelligent hybrid inverter which utilizes solar power, AC utility, and battery power source to supply continuous power It's a simple and smart solar power storage system for home users to either store energy into a battery and wait for night-time usage or use for self-consumption first depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power failure, it will automatically extract power from the battery In this way, it will reduce dependence on the utility.



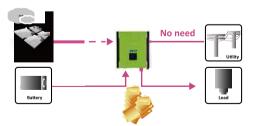
Feed-in is not only choice

In comparison with conventional grid-tie inverter, InfiniSolar is able to not only feed-in power to the grid but also store solar power to the battery for future usage and directly power to the loads.



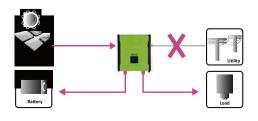
Save money by discharging battery for self-consumption first

IGrid can save money by using battery energy first when PV energy is low. Until battery energy is low, IGrid will extract AC power from the grid.



Power backup when AC failed

IGrid can operate as an off-grid inverter to provide continuous power even without the grid It's a perfect power solution for remote regions or temporary AC power source such as camping or night market.



IGrid On-grid Inverter with Energy Storage Selection Guide

| MODEL | IGrid SS 2KW | IGrid SS 3KW Plus | IGrid SS 5KW Plus | IGrid TT 10KW |
|--|--|--------------------------|-------------------------|--|
| PHASE | | 1-phase in / 1-phase out | | 3-phase in / 3-phase out |
| MAXIMUM PV INPUT POWER | 2250 W | 4500 W | 10000 W | 14850 W |
| RATED OUTPUT POWER | 2000 W | 3000 W | 5000 W | 10000 W |
| MAXIMUM CHARGING POWER | | 00 W | 4800 W | 9600 W |
| GRID-TIE OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Nominal DC Voltage / Maximum DC Voltage | 300 VDC / 350 VDC | 360 VDC / 500 VDC | 720 VDC / 900 VDC | 720 VDC / 900 VDC |
| Start-up Voltage / Initial Feeding Voltage | 80 VDC / 120 VDC | 116 VDC / 150 VDC | 225 VDC / 250 VDC | 320 VDC / 350 VDC |
| MPP Voltage Range | 120 VDC ~ 320 VDC | 250 VDC ~ 450 VDC | 250 VDC ~ 850 VDC | 400 VDC ~ 800 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 18 A | 2 / 2 x 10 A | 2 / 2 x 18.6A |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | 208/220/23 | 30/240 VAC | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 88 - 127 VAC* | 184 - 26 | 65 VAC* | 184 - 265 VAC* per phase |
| Nominal Output Current | 18 A | 13 A | 21 A | 14.5A per phase |
| Power Factor | | l |).99 | |
| EFFICIENCY | | | | |
| Maximum Conversion Efficiency (DC/AC) | 95% | | 96% | |
| European Efficiency@ Vnominal | 94% | | 95% | |
| OFF-GRID OPERATION | | | | |
| AC INPUT | | | | |
| | 60 70 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 400 440 14 | \C / 180 \/\\C | 120 - 140 VAC per phase / |
| AC Start-up Voltage/Auto Restart Voltage | 60 - 70 VAC / 85 VAC | | AC / 180 VAC | 180 VAC per phase |
| Acceptable Input Voltage Range | 80 - 130 VAC | l | 80 VAC | 170 - 280 VAC per phase |
| Maximum AC Input Current | 30 |) A | 4 | 0 A |
| PV INPUT (DC) | | | | |
| Maximum DC Voltage | 350 VDC | 500 VDC | 900 VDC | 900 VDC |
| MPP Voltage Range | 150 VDC ~ 320 VDC | 250 VDC ~ 450 VDC | 250 VDC ~ 850 VDC | 400 VDC ~ 800 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 18 A | 2 / 2 x 10A | 2 / 2 x 18.6A |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | 202/208/220/230/240 VAC | 202/208/220/230/240 VAC | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Waveform | | Pure Si | inewave | |
| Efficiency (DC to AC) | 90% | 93 | 3% | 91% |
| HYBRID OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Nominal DC Voltage / Maximum DC Voltage | 300 VDC / 350 VDC | 360 VDC / 500 VDC | 720 VDC / 900 VDC | 720 VDC / 900 VDC |
| Start-up Voltage / Initial Feeding Voltage | 80 VDC / 120 VDC | 116 VDC / 150 VDC | 225 VDC / 250 VDC | 320 VDC / 350 VDC |
| MPP Voltage Range | 150 VDC ~ 320 VDC | 250 VDC ~ 450 VDC | 250 VDC ~ 850 VDC | 400 VDC ~ 800 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 18 A | 2 / 2 x 10A | 2 / 2 x 18.6A |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | 202/208/220/230/240 VAC | 202/208/220/230/240 VAC | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 88-127 VAC* | | 4.5 VAC* | 184 - 264.5 VAC* per phase |
| Nominal Output Current | 18 A | 13 A | 21 A | 14.5 A per phase |
| AC INPUT | | | | 400 445.115 |
| AC Start-up Voltage / Auto Restart Voltage | 60 - 70 VAC / 85 VAC | 120 - 140 VA | AC / 180 VAC | 120 - 140 VAC per phase / 180 VAC per phase |
| Acceptable Input Voltage Range | 80 - 130 VAC | 170 - 2 | 80 VAC | 170 - 280 VAC per phase |
| Maximum AC Input Current | | A | | 0 A |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | 202/208/220/230/240 VAC | 202/208/220/230/240 VAC | 230 VAC (P-N) / 400 VAC (P-P) |
| Efficiency (DC to AC) | 90% | | 3% | 91% |
| BATTERY & CHARGER | | | | |
| Nominal DC Voltage | | 48 \ | VDC | |
| Ü | D-f- # 054 54 | | Default 60A, 5A - 100A | Default 60A, 10A - 200A |
| Maximum Charging Current | Derault 25A, 5A | · 25A (Adjustable) | (Adjustable) | (Adjustable) |
| GENERAL | | | | |
| PHYSICAL | | | | |
| Dimension, D X W X H (mm) | 107 x 438 x 480 | | 204.2 x 460 x 600 | 167.5 x 500 x 622 |
| Net Weight (kgs) | 15.5 | | 29 | 45 |
| INTERFACE | | | | |
| Communication Port | RS-232/USB RS-232/USB and CAN Interface | | | |
| Intelligent Slot | Optional SNMP, Modbus and AS-400 cards available | | | |
| ENVIRONMENT | | | | |
| Humidity | 0 ~ 90% RH (No condensing) | | | |
| Operating Temperature | 0 to 40°C -10 to 55°C | | | |
| Altitude | | 0 ~ 10 | 00 m** | |
| *Those figures may year, depending on different AC | | ■ VDE-AP-N 4106 | | |

^{*}These figures may vary depending on different AC voltage and country requirements.
**Power derating 1% every 100 m when altitude is over 1000m.
Product specifications are subject to change without further notice.

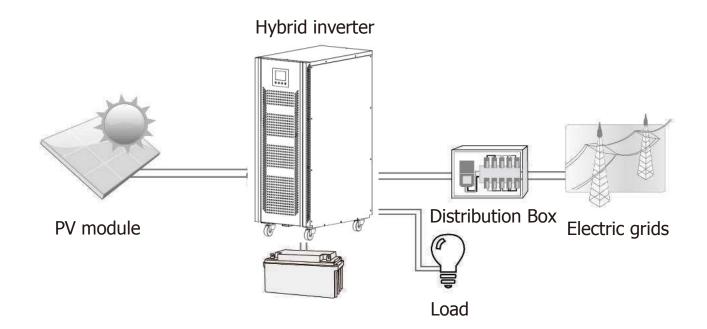
IGrid TX/TX-PA Solar inverter lithium battery



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- True galvanic isolation transformer design
- User-adjustable charging current
- Programmable multiple operation modes:Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 4 units only for 30KW

Introduction:

This hybrid PV inverter can provide power to connected loads by utilizing PV power, utility power and battery power.



IGrid TX/TX-PA 3 Phase Transformer Type Hybrid Inverter Specification

| MODEL | IGrid TX 20KW | IGrid TX 30KW | |
|--|---|---|--|
| MAXIMUM PV INPUT POWER | 30KW | 45KW | |
| RATED OUTPUT POWER | 20KW 30KW | | |
| MAXIMUM CHARGING POWER | 20KW 30KW | | |
| GRID-TIE OPERATION | ZUKVV | | |
| PV INPUT (DC) | | | |
| | 700 \/DO | 050) (D0 | |
| Nominal DC Voltage / Maximum DC Voltage | 720 VDC / | | |
| Start-up Voltage / Initial Feeding Voltage | 500 VDC / 550 VDC | | |
| MPP Voltage Range | 460 VDC ~ | | |
| Full power MPP Voltage Range | 625 VDC ~ | 900 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 48A | 1 / 72A | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | 230 VAC* (P-N) | / 400 VAC (P-P) | |
| Output Voltage Range | 195.5 - 253 V | AC per phase | |
| Output Frequency Range | 49 ~ 51 Hz or 5 | · · | |
| Nominal Output Current | 29.0 A per phase | 43.5 A per phase | |
| Power Factor | > 0.99 | 1 | |
| EFFICIENCY | 7 0.00 | ı | |
| | 040/ | 050/ | |
| Maximum Conversion Efficiency (DC/AC) | 91% | 95% | |
| OFF-GRID OPERATION | | | |
| AC INPUT | | | |
| AC Start-up Voltage/Auto Restart Voltage | 120 - 140 VAC per phase / 180 VAC per phase | 150 - 170 VAC per phase / 180 VAC per phase | |
| Acceptable Input Voltage Range | 170 - 280 VA | C per phase | |
| Maximum AC Input Current | 40 A per phase | 43.5 A per phase | |
| PV INPUT (DC) | | | |
| Maximum DC Power / Maximum DC Voltage | 30KW / 950 VDC | 45KW / 950 VDC | |
| MPP Voltage Range | 500 VDC ~ 900 VDC | 460 VDC ~ 900 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 48 A | 1 / 72 A | |
| BATTERY MODE OUTPUT (AC) | | | |
| Nominal Output Voltage | 230 VAC (P-N) / | 400 V/AC (P. P.) | |
| | Pure Sir | . , | |
| Output Waveform | | | |
| Efficiency (DC to AC) | >91 | <u> </u> | |
| HYBRID OPERATION | | | |
| PV INPUT (DC) | | | |
| Nominal DC Voltage / Maximum DC Voltage | 720 VDC / | 950 VDC | |
| Start-up Voltage / Initial Feeding Voltage | 500 VDC / | 550 VDC | |
| MPP Voltage Range | 500 VDC ~ 900 VDC | 460 VDC ~ 900 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 48 A | 1 / 72 A | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | 230 VAC* (P-N) | / 400 VAC (P-P) | |
| Output Voltage Range | 184 - 265 VAC per phase | 195.5 - 253 VAC per phase | |
| Output Frequency Range | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz | 49 ~ 51 Hz or 59.3 ~ 60.5 Hz | |
| | | | |
| Nominal Output Current | 29 A per phase | 43.5 A per phase | |
| Power Factor | > 0.99 | 1 | |
| AC INPUT | | | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC per phase / 180 VAC per phase | 150 - 170 VAC per phase / 180 VAC per phase | |
| Acceptable Input Voltage Range | 170 - 280 VA | C per phase | |
| Maximum AC Input Current | 40 A per phase | 43.5 A per phase | |
| BATTERY MODE OUTPUT (AC) | | | |
| Nominal Output Voltage | 230 VAC (P-N) / | 400 VAC (P-P) | |
| Efficiency (DC to AC) | >91 | , , | |
| BATTERY & CHARGER | | | |
| Nominal Battery Voltage/Charging Voltage Range | 384 VDC | 384 VDC / 384 VDC ~ 480 VDC | |
| Maximum Charging Current | 50A | 80A | |
| GENERAL | JUA | 000 | |
| | | | |
| PHYSICAL | FF0 000 000 | 100 8/8 1001 | |
| Dimension, D x W x H (mm) | 559 x 320 x 909 | 430 x 715 x 1021 | |
| Net Weight (kgs) | 120 | 223 | |
| NTERFACE | | | |
| Communication Port | RS-232 | /USB | |
| ntelligent Slot | Optional SNMP, GPRS, WII | FI, Modbus cards available | |
| ENVIRONMENT | | | |
| Humidity | 0 ~ 90% RH (Non-Condensing) | | |
| Operating Temperature | -10 to 55°C | | |
| Altitude | 0 ~ 1000 m** | | |
| untodo | 0~100 | 70 III | |

^{*}These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.

ISolar MLV-U MPPT Solar Inverter



- Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sinewave.
- Two output modes: mains bypass and inverter output; uninterrupted power supply.
- Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- Advanced MPPT technology with an efficiency of 99.9%.
- With the charging requirement (voltage, current, mode) settings and suitable for various types of energystorage batteries.

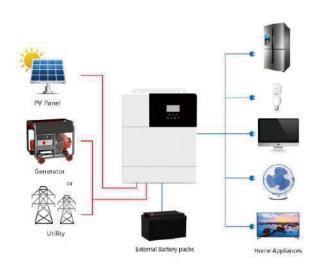
 ON/OFF rocker switch for AC output control.
- Power saving mode available to reduce no-load loss
- Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- Lithium battery activation design, allowing access of lead-acid battery and lithium battery.
 360 ° all-round protection with a number of protection functions.
- Such as overload, short circuit and overcurrent.
- Supply of a variety of user-friendly communication modules, such as RS485 (GPRS,WiFi, Bluetooth), CAN, USB etc., and suitable for computer, mobile phones, Internet monitoring as well as remote operations.

Introduction:

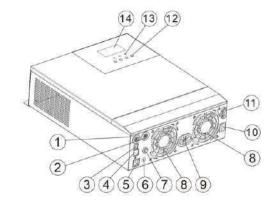
MLV-U series is a new all-in-one Offgrid hybrid solar charge inverter, which integrates solar energy storage &mains charging energy storage and AC sine wave output.

Thanks to DSP control and advanced controlalgorithm, it has high response speed, high reliability and high industrial standard.

Product connection diagram



Appearance



| 1 | AC input port | | Cooling fan | |
|-----|------------------------------|-----|----------------------|--|
| 2 | AC output port | | Battery port | |
| 3 | USB communication port | | ON/OFF rocker switch | |
| 4 | RS485/CAN communication port | | PV port | |
| (5) | Dry node port | | Touch button | |
| 6 | Grounding screw hole | | LED Indicator | |
| 7 | AC input Overload protector | 14) | LCD screen | |

ISolar MLV -U Solar inverter control machine

| Model | MLV 3KW-U | MLV 3.5KW-U | MLV 5KW-U | | |
|--|--|----------------------------|-----------------------|--|--|
| AC mode | IVILV SKVV-U | IVILV 3.5KVV-U | U-VVAC VIIVI | | |
| Rated input voltage | 110/120VAC | | | | |
| Input voltage range | (90Vac-140Vac)±2% | | | | |
| Frequency | 50Hz/ 60Hz (Auto detection) | | | | |
| Frequency Range | 47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz); | | | | |
| Overload/short circuit protection | | Circuit breaker | 5.01 12 (001 12), | | |
| Efficiency | | >95% | | | |
| Conversion time (bypass and inverter) | | 10ms (typical) | | | |
| AC reverse protection | | Available | | | |
| Maximum bypass overload current | 40A | 40A | 63 A | | |
| Inverting mode | | | 997 | | |
| Output voltage waveform | | Pure sine wave | | | |
| Rated output power(VA) | 3000W | 3500W | 5000W | | |
| Rated output power(W) | 3000W | 3500W | 5000W | | |
| Power factor | | 1 | | | |
| Rated output voltage (Vac) | | 120VAC | | | |
| Output voltage error | | ±5% | | | |
| Output frequency range (Hz) | 50Hz ± | ± 0.3Hz/60Hz ± 0.3Hz | | | |
| Efficiency | >92% | >90% | >90% | | |
| Overload protection | 102% < load <110%) ±10%: report error and turn off the output after5 minutes; (110% < load < 125%) ± 10%: report error and turn off the output after 10 seconds; Load >125% ±10%: report error and turn offthe output after 5 seconds; | | | | |
| Peak power | 4500VA | 5000VA | 10000VA | | |
| Loaded motor capacity | 2HP 4HP | | | | |
| Output short-circuit protection | 40A | Circuit breaker | C2A | | |
| Specification of bypass breaker | | 40\//Minimum | 63A | | |
| Rated battery input voltage | 24V (Minimum starting voltage 22V) | , | starting voltage 44V) | | |
| Battery voltage range | 20.0Vdc~33Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm overvoltage recovery settable on LCD screen) | | | | |
| Power saving mode | | Load ≤25W | | | |
| AC charge | | | | | |
| Battery type | | acid or lithium battery | | | |
| Maximum charge current | 60A | 40A | 63A | | |
| Charge current error | | ± 5Adc | | | |
| Charge voltage range | 18.0Vdc~33Vdc | 40-60VDC | 40-60VDC | | |
| Short-circuit protection | | preaker and blown fuse | | | |
| Breaker specification | 40A | 40A | 63A | | |
| Overcharge protection | Alarm and tur | rn off charging after 1 mi | nute | | |
| PV Charging | 400\/D0 | 4.45)/DO | 500/4- | | |
| Maximum PV opencircuit voltage | 100VDC | 145VDC | 500Vdc | | |
| PV operation voltage range | 30-100VDC | 60-145VDC | 120-500Vdc | | |
| MPPT voltage range | 30-95VDC | 60-115VDC | 120-450Vdc | | |
| Battery voltage range Maximum output power | 18-33VDC 1600W | 40-60VDC 4200W | 40-60Vdc 5000W | | |
| Charge current range of | 100077 | 420000 | 3000 | | |
| solar energy (settable) | 0-60A | 0-80A | 0-80A | | |
| Charge short-circuit protection | Blown fuse | | | | |
| Wiring protection | Reverse polarity protection | | | | |
| Authentication specification | ivevei | oo polarity protection | | | |
| Specification authentication | | | | | |
| EMC authentication grade | EN61000 | | | | |
| Operation temperature range | -15°C to 55°C | | | | |
| Storage temperature range | -25°C ~ 60°C | | | | |
| Humidity range | 5% to 95% (Conformal coating protection) | | | | |
| Noise | ≤60dB | | | | |
| Thermal dissipation | Forced air cooling, variable speed of fan | | | | |
| Communication interface | USB/RS485(WiFi/GPRS)/Dry node control | | | | |
| Dimension (L*W*D) | 378mm*280mm*103mm 430mm*338mm*126mm | | | | |
| Weight (kg) | 6.2 | | | | |

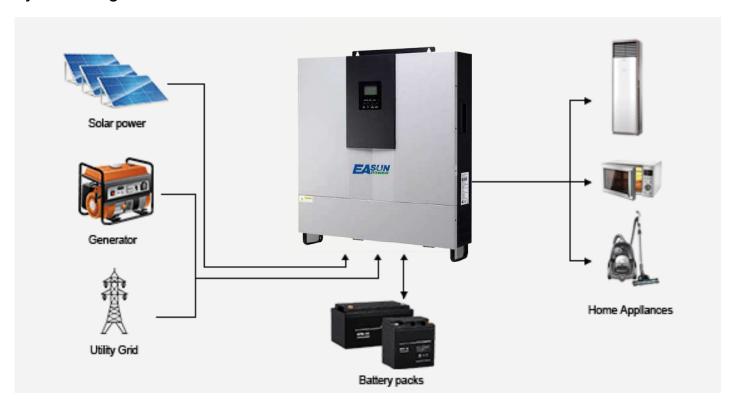
Solar Inverter

ISolar MLV 6KW MPPT Solar Inverter



- Pure sine wave inverter
- Selectable output voltage at 120VAC/208VAC/240VAC depending on applications
- Built-in 2 strings of MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Maximum 3 units in parallel operation for single phase, split phase and three phase applications

System Diagram



ISolar MLV Off-Grid Inverter Specification

| MODEL | ISolar MLV 6KW |
|---------------------------------------|---|
| Rated Power | 6000VA/6000W |
| Parallel Capability | Yes, 3 units |
| INPUT | |
| Rated Input Voltage | 110/120 VAC(L-N or L1-N-L2) |
| Input Voltage Range | 95 ~ 140 VAC (For Personal Computers) 65 ~ 140 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| ОИТРИТ | |
| AC Voltage Regulation (Batt. Mode) | 110/120 VAC(L-N or L1-N-L2) |
| | 90% |
| Transfer Time | 10 ms (For Personal Computers) 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| BATTERY | |
| Battery Voltage | 48 VDC |
| Floating Charge Voltage | 54 VDC |
| Overcharge Protection | 60 VDC |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger type | MPPT |
| Maximum PV Array Open Circuit Voltage | 145 VDC |
| Number of MPP Trackers | 2 |
| Maximum PV Array Power | 4000 W x 2 |
| MPP Range @ Operating Voltage | 60 VDC ~ 115 VDC |
| Maximum Solar Charge Current | 80 A x 2 |
| Maximum AC Charge Current | 60 A |
| Maximum Charge Current | 220 A |
| | 96 % |
| | 92 % |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 130 x 622.6 x 610 |
| Net Weight (kgs) | 30 |
| OPERATING ENVIRONMENT | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) |
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -15°C to 60°C |

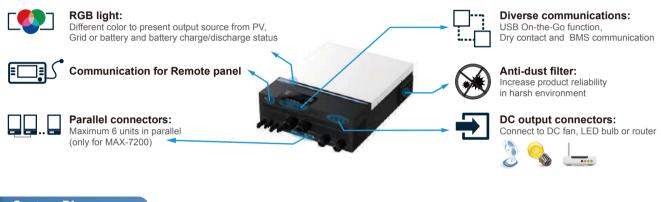
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Solar Inverter

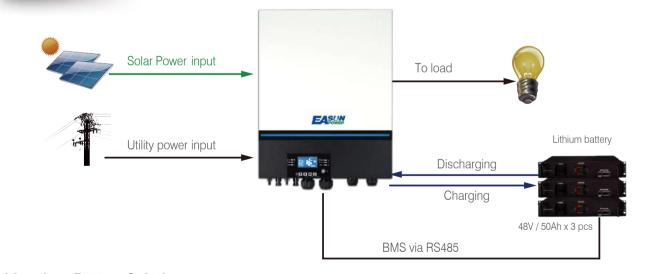
ISolar SMW LV 6.5KW Hybrid Solar Inverter



- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- · Replaceable fan design for ease of maintenance
- Battery independent design
- Confugurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Parallel operation with 6 units



System Diagram:



Lithium-iron Battery Solution

Unit:min

| Inverter Model | Rated Load (Watt) | Battery Model | Usable Capacity (Wh) | BAT x 1 | BAT x 2 | BAT x 3 | BAT x 4 | BAT x 5 | BAT x 6 | BAT x 7 | BAT x 8 |
|----------------|-------------------|---------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 3250 | US2000 | 2200 | N/A | 73 | 109 | 146 | 182 | 219 | 255 | 292 |
| | 3250 | LIO-4805 | 2400 | 39 | 79 | 119 | 159 | 199 | 239 | 279 | 319 |
| SMW LV 6.5KW | 3250 | LIO-4810 | 4800 | 79 | 159 | 239 | 319 | 398 | 478 | 558 | 638 |
| 6500-48-120 | 6500 | US2000 | 2200 | N/A | N/A | 54 | 73 | 91 | 109 | 127 | 146 |
| | 6500 | LIO-4805 | 2400 | N/A | 39 | 59 | 79 | 99 | 119 | 139 | 159 |
| | 6500 | LIO-4810 | 4800 | 39 | 79 | 119 | 159 | 199 | 239 | 279 | 319 |

ISolar SMW LV 6.5KW Off-Grid Inverter

| MODEL | ISolar SMW LV 6.5KW |
|---------------------------------------|--|
| Rated Power | 6500VA/6500W |
| PARALLEL CAPABILITY | Yes, 6 units |
| INPUT | |
| Voltage | 120 VAC |
| Selectable Voltage Range | 90-140 VAC (For Computers) 80-140 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| OUTPUT | |
| AC Voltage Regulation (Batt. Mode) | 120VAC ± 5% |
| Surge Power | 15000VA |
| Efficiency (Peak) | 90% ~ 93% |
| Transfer Time | 15 ms (For Personal Computers); 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| No Load Power Consumption | <70W |
| Optional DC Voltage | 12 VDC ± 5%, 100W |
| BATTERY | |
| Battery Voltage | 48 VDC |
| Floating Charge Voltage | 54 VDC |
| Overcharge Protection | 66 VDC |
| SOLAR CHARGER & AC CH | IARGER |
| Solar Charger Type | MPPT |
| Maximum PV Array Power | 8000W (4000W x 2) |
| MPPT Range @ Operating Voltage | 90 ~ 230 VDC |
| Maximum PV Array Open Circuit Voltage | 250 VDC |
| Maxmum Solar Charge Current | 120 A |
| Maximum AC Charge Current | 120 A |
| Maximum Charge Current | 120 A |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 147.4 x 432.5 x 553.6 |
| Net Weight (kgs) | 18.4 |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact |
| OPERATING ENVIRONMEN | Т |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) |
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -15°C to 60°C |
| STANDARD | |
| Compliance Safety | UL |

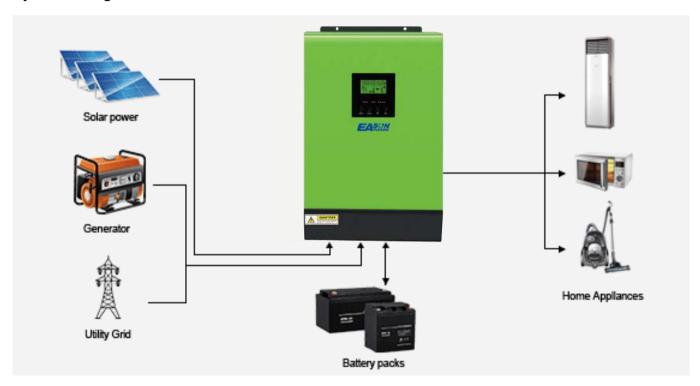
Solar Inverter

IGrid SV LV 3KVA Hybrid Solar Inverter

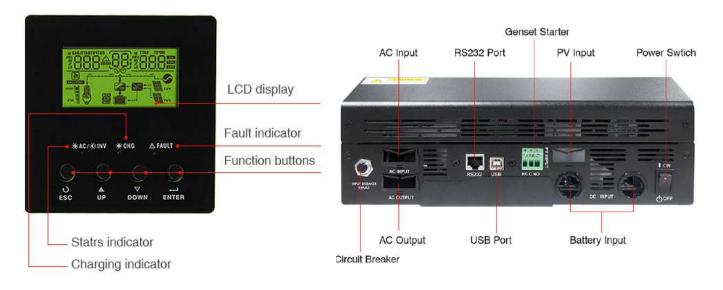


- Pure sine wave inverter
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel-able for 3KW/4KW/5KW models

System Diagram



Interface introduction



110V-120V Grid Tie Solar Inverter With Energy Storage

| | 3, |
|--|--|
| MODEL | IGrid SV LV-3K-24 |
| Max. PV Array Power | 2000W |
| Maximum PV Array Open Circuit Voltage | 145 VDC |
| MPPT Range @ Operating Voltage | 30 VDC ~ 115 VDC |
| Number of MPP Tracker | 1 |
| GRID-TIE OPERATION | |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 110/120 VAC |
| Rated Output Power | 2400W |
| Output Voltage Range | 88~127 Vac VAC* |
| Nominal Output Current | 27 A |
| Power Factor | >0.99 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 90% |
| OFF-GRID, HYBRID OPERATION | |
| GRID INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 60 - 70 VAC / 90 VAC |
| Acceptable Input Voltage Range | 95-140 VAC |
| Maximum AC Input Current | 40A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 110/120 VAC |
| Rated Output Power | 2400W / 3000VA |
| Output Waveform | Pure Sine Wave |
| Efficiency (DC to AC) | 93% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 24 VDC |
| Maximum Charging Current (from Grid) | 60A |
| Maximum Charging Current (from PV) | 80A |
| Maximum Charging Current | 140A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D X W X H (mm) | 120x295x505 |
| Net Weight (kgs) | 11.5 |
| INTERFACE | |
| Parallel-able | Yes. Single phase, Split phase |
| External Safety Box (Optional) | Yes |
| Communication | USB/Dry-Contact |
| ENVIRONMENT | • |
| Humidity | 0 ~ 90% RH (No condensing) |
| Operating Temperature | 0 to 50° C |
| *The firm | and lifferent A.O. with an and a suntant and a suntant |

^{*}These figures may vary depending on different AC voltage and country requirements.



Solar Inverter

IGrid SV LV II 6KW (Split phase)





- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current up to 100A
- Detachable LCD control module with multiple communications
- Built-in WI-FI for mobile monitoring (App is available)
- Reserved communication port for BMS (RS485)
- Parallel operation up to 9 units

IGrid SV LV II 6KW Split Phase On-Grid Inverter with Energy Storage Specification

| MODEL | IGrid SV LV II 6KW |
|--|--|
| PHASE | Split phase |
| Maximum PV Input Power | 6000 W |
| Rated Output Power | 6000 VA |
| Maximum Charging Power | 5000 W |
| GRID-TIE OPERATION | 3000 W |
| PV INPUT (DC) | |
| | 360 VDC / 450 VDC |
| Nominal DC Voltage / Maximum DC Voltage | |
| Start-up Voltage / Initial Feeding Voltage | 110VDC / 120 VDC |
| MPP Voltage Range | 120 VDC ~ 450 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 27 A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 110 VAC (P-N) / 220 VAC (P-P) |
| Output Voltage Range | 91.5 - 132 VAC (P-N)/ 183 - 264 VAC (P-P) |
| Nominal Output Current | 27.3 A per phase |
| Power Factor | > 0.99 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 95% |
| OFF-GRID OPER | |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P) |
| Acceptable Input Voltage Range | 65 - 140 VAC (P-N)/ 130 - 280 VAC (P-P) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| Maximum AC Input Current | 40 A per phase |
| PV INPUT (DC) | The first state of the first sta |
| Maximum DC Voltage | 450 VDC |
| MPP Voltage Range | 120 VDC ~ 450 VDC |
| Number of MPP Trackers / Maximum Input Current | 1/27 A |
| BATTERY MODE OUTPUT (AC) | 17477 |
| Nominal Output Voltage | 110 VAC (P-N) / 220 VAC (P-P) |
| Output Waveform | Pure sine wave |
| Efficiency (DC to AC) | 88% |
| , , | 0070 |
| HYBRID OPER | |
| PV INPUT (DC) | 000 VDO 7 450 VDO |
| Nominal DC Voltage / Maximum DC Voltage | 360 VDC / 450 VDC |
| Start-up Voltage / Initial Feeding Voltage | 110VDC / 120 VDC |
| MPP Voltage Range | 120 VDC ~ 450 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 27 A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 110 VAC (P-N) / 220 VAC (P-P) |
| Output Voltage Range | 91.5 - 132 VAC (P-N)/ 183 - 264 VAC (P-P) |
| Nominal Output Current | 27.3 A per phase |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P) |
| Acceptable Input Voltage Range | 65 - 140 VAC (P-N)/ 130 - 280 VAC (P-P) |
| Maximum AC Input Current | 40 A per phase |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 110 VAC (P-N) / 220 VAC (P-P) |
| Output Waveform | Pure sine wave |
| Efficiency (DC to AC) | 88% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 48 VDC |
| Maximum Solar Charging Current | 100A |
| Maximum AC Charging Current | 100A |
| Maximum Charging Current | 100A |
| GENERAL GENERAL | 100/1 |
| PHYSICAL | |
| 1 1 1 1 O 1 O 1 NE | |
| | 130 A v 365 v 502 G |
| Dimension, D x W x H (mm) | 138.4 x 365 x 593.6 |
| Dimension, D x W x H (mm) Gross weight (kgs) | 138.4 x 365 x 593.6 26 |
| Dimension, D x W x H (mm) Gross weight (kgs) INTER | 26 |
| Dimension, D x W x H (mm) Gross weight (kgs) INTER Communication | |
| Dimension, D x W x H (mm) Gross weight (kgs) INTER Communication ENVIRONMENT | 26 USB/RS-232/RS-485/WiFi/Dry contact |
| Dimension, D x W x H (mm) Gross weight (kgs) INTER Communication | 26 |

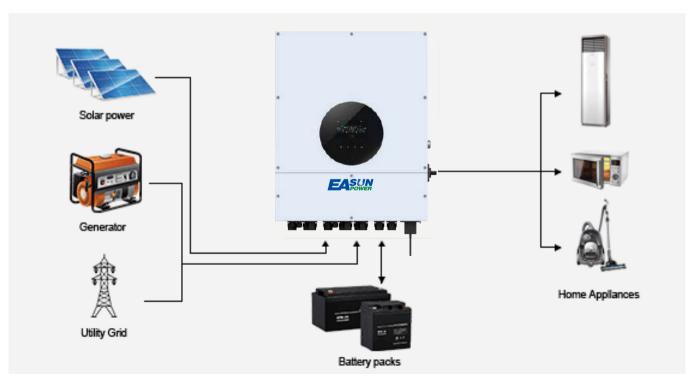
Solar Inverter

IGrid WP LV Hybrid Solar Inverter



- IP65 waterproof and dustproof for various working conditions
- Support multiple input & output- Split Phase 208/240Vac or Single Phase 230Vac
- Built-in WiFi for mobile monitoring (APP is available)
- Dual outputs selected as either programmable output or generator input
- Built-in alternative port for generator and emergent load
- Optional external CT sensor to guarantee 100% self-consumption
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 6 units

System Diagram



IGrid WP Split-phase On-Grid Inverter with Energy Storage Selection Guide

| MODEL | IGrid WP LV 6KW | IGrid WP LV 10KW | | |
|--|---|--|--|--|
| Phase | 120/240V Split phase, 120V/208V Split phase | 120/240V Split phase, 120V/208V Two-thirds phase | | |
| Maximum PV Input Power | 7500W | 14500W | | |
| Rated Output Power | 6000VA/6000W | 10000VA/10000W | | |
| Maximum Charging Power | 6000W | 10000W | | |
| GRID-TIE OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Maximum DC Voltage | 600 VDC | 600 VDC | | |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / 160 VDC | 120VDC / 160 VDC | | |
| MPP Voltage Range | 120 VDC ~ 550 VDC | 120 VDC ~ 550 VDC | | |
| Number of MPP Trackers / Maximum Input Current | 2/15A | 2/27A | | |
| GRID OUTPUT (AC) | 27 13/1 | Z/Z/N | | |
| Nominal Output Voltage | 110 VAC (P-N) / | 220 VAC (P-P) | | |
| Output Voltage Range | 97-132VAC(P-N) / 19 | , | | |
| Nominal Output Current | 27.3 A per phase | 41.5 A per phase | | |
| Power Factor | • • | | | |
| FFICIENCY | 0.9 lag to | 0.9 lead | | |
| | 00 | 0/ | | |
| Maximum Conversion Efficiency (DC/AC) | 96 | % | | |
| OFF-GRID OPERATION | I | | | |
| AC INPUT | 0EL/4 O/D ALV 4701/4 O/D BV | (00) (A O (D NI) 400) (A O (D D) | | |
| AC Start-up Voltage / Auto Restart Voltage | · · · · · · · · · · · · · · · · · · · | / 90VAC(P-N), 180VAC(P-P) | | |
| Acceptable Input Voltage Range | 85 - 140 VAC (P-N)/ | , , | | |
| requency Range | 50 Hz/60 Hz (| <u>. </u> | | |
| Maximum AC Input Current | 30 A per phase | 50 A per phase | | |
| PV INPUT (DC) | | | | |
| Maximum DC Voltage | 600 \ | VDC | | |
| IPP Voltage Range | 120 VDC ~ | - 550 VDC | | |
| lumber of MPP Trackers / Maximum Input Current | 2 / 15A | 2 / 27A | | |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 110 VAC (P-N) / | 220 VAC (P-P) | | |
| Output Waveform | Pure sin | ne wave | | |
| Efficiency (DC to AC) | 91% | 96% | | |
| HYBRID OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Maximum DC Voltage | 600 \ | VDC | | |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / | 160 VDC | | |
| MPP Voltage Range | 120 VDC ~ | | | |
| Number of MPP Trackers / Maximum Input Current | 2 / 15A | 2 / 27A | | |
| GRID OUTPUT (AC) | 2710/ | 27277 | | |
| Nominal Output Voltage | 110 VAC (P-N) / | 220 VAC (P-P) | | |
| Output Voltage Range | 97-132VAC(P-N) / 19 | , , | | |
| Nominal Output Current | 27.3 A per phase | 41.5 A per phase | | |
| AC INPUT | 21.3 A pei pilase | 41.5 A per pridse | | |
| | 0E\/A.C/D.kl\\ 470\/A.C/D.D\\ | / 00\/AC/D NI\ 190\/AC/D D\ | | |
| AC Start-up Voltage / Auto Restart Voltage | 85VAC(P-N), 170VAC(P-N) | | | |
| Acceptable Input Voltage Range | 85 - 140 VAC (P-N)/ | ` / | | |
| Maximum AC Input Current | 30 A per phase | 50 A per phase | | |
| BATTERY MODE OUTPUT (AC) | | (200) (A O (D D) | | |
| Nominal Output Voltage | 110 VAC (P-N) / | , | | |
| Efficiency (DC to AC) | 91% | 96% | | |
| BATTERY & CHARGER | T | | | |
| Iominal DC Voltage | 42-62 VDC | 80-576 VDC | | |
| Maximum Solar Charging Current | 120 A | 50 A | | |
| Maximum AC Charging Current | 120 A | 50 A | | |
| Maximum Charging Current | 120 A | 50 A | | |
| ENERAL | | | | |
| HYSICAL | | | | |
| Dimension, D x W x H (mm) | 215.5 x 515 x 700 | 262 x 500 x 575 | | |
| let Weight (kgs) | 41 | 50 | | |
| NTERACE | | | | |
| Parallel Function | Yes, 6 | units | | |
| Communication Port | RS232, RS48 | | | |
| NVIRONMENT | 110202,110401 | - ,, | | |
| | | | | |
| Protection Degree | ID : | 65 | | |
| Protection Degree Operating Temperature | -25°C to 60°C (2 | | | |

Solar Controller

Tracer-AN Series MPPT Solar Charge Controller



- Advanced MPPT technology, with efficiency no less than 99.5%
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Advanced MPPT control algorithm to minimize the maximum power point loss rate and loss time
- Wide MPP operating voltage range
- High quality components, perfecting system performance, with maximum conversion efficiency of 98%
- Accurate recognition and tracking of multiple-peaks maximum power point
- International famous brands of ST and IR's components of high quality and low failure rate are used, which can ensure the product's service life
- Charging power and current limitation function

Protection function

- •PV Over Current/power
- •Night Reverse Charging
- Battery Over Discharge
- Lithium Battery Low Temperature
- •TVS High Voltage Transients
- •PV Short Circuit
- Battery Reverse Polarity
- Battery Overheating
- ·Load Short Circuit,

- •PV Reverse Polarity
- Battery Over Voltage
- Controller Overheating★
- Load Overload

★When the internal temperature is 81°C, the reducing power charging mode which reduce the charging power of 5%,10%,20%,40% every increase 1 °Cis turned on. If the internal temperature is greater than 85°C, the controller will stop charging. But while the temperature decline to be below 75 °C, the controller will resume.

Accessories



Remote Meter(MT50)
Set the controller parameter via the LCD display



Data logger (eLOG01)
Real-time parameter recording
of the product through the RS485
communication mode



Remote temperature sensor RTS300R47K3.81A



Bluetooth adapter (Box-BLE-01) with 2m communication cable (for the controller with RS485 port)



WIFI adapter (eBox-WIFI-01) with 2m communication cable (for the controller with RS485 port)



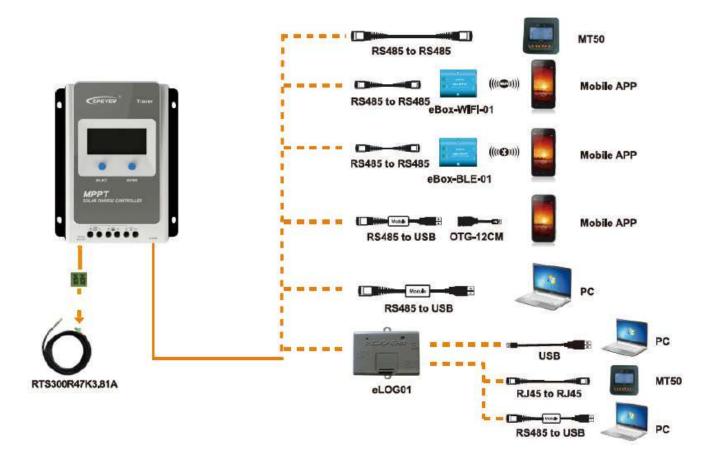
Communication cable CC-USB-RS485-150U USB to RS485 PC communication cable (1.5m)



OTG cable (OTG-12CM)

Connect the controller to mobile

APP



| Item | Tracer 1206AN | Tracer 2206AN | Tracer 1210AN | Tracer 2210AN | Tracer 3210AN | Tracer 4210AN | |
|-------------------------------------|----------------------|----------------------|------------------------------------|------------------------------|-------------------------------------|---------------------------|--|
| System nominal voltage | | | 12/24VDC [®] Auto | | | | |
| Rated charge current | 10A | 20A | 10A | 20A | 30A | 40A | |
| Rated discharge current | 10A | 20A | 10A | 20A | 30A | 40A | |
| Battery voltage range | | | 8~3 | 2V | ' | ' | |
| Max. PV open circuit voltage | 60\ 46\ | | | | 00V ² 2V ³ | | |
| MPP voltage range | (Battery volta | age +2V)~ | | ` " | Itage +2V)∼ | | |
| Max. PV input power | 130W/12V 260W/24V | 260W/12V 520W/24V | 130W/12V 260W/24V | 260W/12 V 520W/24 V | 390W/12V 780W/24V | 520W/12V 1040W/24 V | |
| Self-consumption | | | ≤12 | mA | | | |
| Discharge circuit voltage drop | | | ≤0.2 | 23V | | | |
| Temperature compensate coefficient® | | | -3mV/°C/2V | (Default) | | | |
| Grounding | | | Common r | negative | | | |
| RS485 interface | | | 5VDC/1 | 00mA | | | |
| LCD backlight time | | 60S (Default) | | | | | |
| Working environment tem | perature • | | -25°C∼+50°C(100% input and output) | | | | |
| Storage temperature rang | је | | -20°C ~ +70°C | | | | |
| Relative humidity | ive humidity | | | ≤95%, N.C. | | | |
| Enclosure | | | IP30 | | | | |

| Item | Tracer1206AN Tracer1210AN | Tracer2206AN Tracer2210AN | Tracer3210AN | Tracer4210AN | | | |
|--------------------|-------------------------------|------------------------------|--------------------------|--------------------------|--|--|--|
| Dimension | 172x139 x 44mm | 220x154x 52mm | 228x164x55mm | 252x180x63mm | | | |
| Mounting dimension | 130x130mm | mm 170x145mm 170x164mm | | 210x171mm | | | |
| Mounting hole size | Ф5mm | | | | | | |
| Terminal | 12AWG(4mm²) | 6AWG(16mm²) | 6AWG(16mm ²) | 6AWG(16mm ²) | | | |
| Recommended cable | Recommended cable 12AWG(4mm²) | | 8AWG(10mm ²) | 6AWG(16mm ²) | | | |
| Weight | Weight 0.57kg | | 1.26kg | 1.65kg | | | |
| Certification | CE IEC62109 | | | | | | |

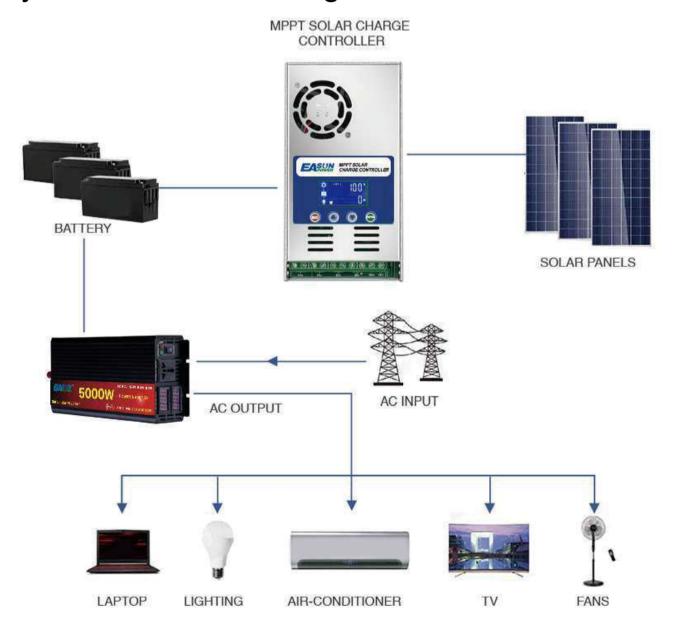
Solar Controller

ICharger MPPT 6048 60A MPPT Solar Charge Controller



- MPPT solar charge controller
- 12/24/36/48 V battery system auto recognition
- 180Voc max PV input voltage
- Key operation for parameter settings
- Cooling fan and metal case; stable cooling effect
- LCD screen display; background light function in dark environment
- Over rating electronic components to minimize the power loss from heating

System connection diagram:



ICharger MPPT 6048 Specification

| ITEM Parameter | | | | | | | |
|----------------------|-----------------------------|------------------|---|-----------------------|------------------|------------------|------------------|
| Models | | | ICharger MPPT 6048 | | | | |
| Charging mode | | | 3-stage: constant current(MPPT), constant voltage, floating | | | | |
| System Voltage | | | | 12/24/36/48 | /Auto | | |
| Max PV Input Powe | r | | 720W/12V; 1440W/24V; 2160W/36V; 2880W/48V | | | | |
| Max PV Input Voltage | ge | | | 180 Voc | | | |
| Battery voltage auto | omatic recognition: 48V Bat | tery | | DC40V~DC | 60V | | |
| Overcharging prote | ction voltage: 48V Battery | | | 60V | | | |
| Limited current prot | ection | | | 61A | | | |
| Max e⊠ciency | | | | ≥98.1% |) | | |
| PV utilization | | | | ≥99% | | | |
| | Protection Function | | | | | | |
| Temperature protect | | 75℃ | | | | | |
| | Fan-on temperature | | | >45°C | | | |
| Fan-o⊠ temperatur | re | | | <40℃ | | | |
| | | | | Propertie | | | |
| Size (mm) | | | | 214x115x | 50 | | |
| Net weight(Kg) | | | | 1.1 | | | |
| Gross weight(Kg) | | | | 1.2 | | | |
| Electromagnetic co | mpatibility | | | Accord to EN61000, EN | 55022, EN55024 | | |
| Enclosure | | | | IP21 | | | |
| Environmental temp | perature | | | -20°C ~ +5 | 5°C | | |
| Storage temperatur | e | | | -40°C ~ +7 | 5°C | | |
| | | | | Battery Parai | neters | | |
| Battery Type | System Volt | EQU | BST | FLD | BST_R | LRV | LDV |
| GEL | Auto | 14.2V | 14.2V | 13.8V | 13.2V | 12.6V | 12.0V |
| SEL | Auto | 14.6V | 14.4V | 13.8V | 13.2V | 12.6V | 12.0V |
| FLD | Auto | 14.8V | 14.6V | 13.8V | 13.2V | 12.6V | 12.0V |
| USE | Auto/12/24/36/48 | Defined by users | Defined by users | Defined by users | Defined by users | Defined by users | Defined by users |
| LI | 12/24/36/48 | | Defined by users | | | Defined by users | Defined by users |

Solar Controller

ICharger MPPT 4880 MPPT Solar Charge Controller



- LCD display, easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- BTS Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

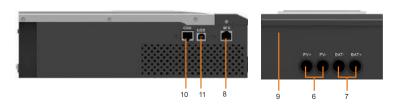
Introduction:

MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

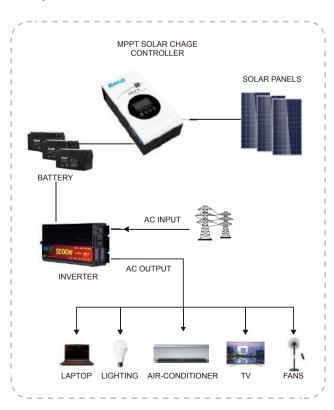
Back panel printing description:



- 1. LCD display
- 2. Power ON/Charging indicator
- 3. Fault and warning indicator
- 4. Wiring fault indicator
- 5. Operation button
- 5. Operation butto
- 6. PV connectors7. Battery connectors
- 8. Battery temperature sensor terminal
- 9. Wiring box cover
- 10.RS485 communication port
- 11. USB



Solar system connection:



Icharger MPPT 4880 Specification

| | MODEL | MPPT | -4880 | MPPT-48100 | | | | |
|--------------------------|--------------------------------|---|---|------------------------------------|-----------------------|---------|--|--|
| Nomina | al Battery System Voltage | 12V\24V\48VDC (Auto detection); 36V (Setting) | | | | | | |
| | Battery Voltage | 12V | 24V | 36V | 48V | 48V | | |
| | Maximum Solar Input Voltage | 100V | | 14 | 5V | | | |
| CONTROLLER | PV Array MPPT Voltage Range | 15~95V | 30~130V | 45~130V | 60~130V | 60~130V | | |
| INPUT | | 12 Volt- | 1250W | | 12 Volt-1560W | | | |
| | Maximum Input Power | 24 Volt- | | | 24 Volt-3120W | | | |
| | Maximum input rower | 36 Volt- | 3750W | | 36 Volt-4680W | | | |
| | | 48 Volt- | | | 48 Volt-6250W | | | |
| | Charging Set Points | Absorption | | | Float Stage | | | |
| | Flooded Battery | | \ 42.6V \ 56.8V | | V \ 27.4V \ 41.1V \ 5 | | | |
| | AGM (Default) | 14.4V \ 28.8V \ | \ 43.2V \ 57.6V | | V \ 27.4V \ 41.1V \ 5 | 54.8V | | |
| | Over-charging Voltage | | | V \ 30.0V \ 45.0V \ (| | | | |
| | Over-charging Comeback Voltage | | | V\29.5V\44.5V\ | | | | |
| BATTERY | Battery Defect Voltage | | 10.0 | V \ 17.0V \ 25.5V \ : | 34.0V | | | |
| | Temperature Compensation | | -5mv \ °C \cell (25°C vef) | | | | | |
| | Conefficient | · · · · · | | | | | | |
| - | Peak Conversion Efficiency | 00.4 | | (MPPT Efficiency ! | | | | |
| | Mximum Battery Current | 80A | mps | | 100Amps | | | |
| | Max Charging Current | 80amps continuou | ıs @ 40°C ambient | t 100amps continuous @ 40℃ ambient | | | | |
| GENERAL SPECIFICATION | Radiating Mode | | | Fan cooling | | | | |
| | | | | high voltage disco | | | | |
| | | | | r high voltage reco | | | | |
| DISPLAY & | Protections | Battery high voltage disconnect | | | | | | |
| PROTECTION | | | | ry high voltage reconnect | | | | |
| | | | | gh temperature disconnect | | | | |
| | | | High | temperature recor | nnect | | | |
| | Mounting | | | Wall mount | | | | |
| MECHANICAL | Machine Dimension (W*H*D) | 152*85*294 r | nm (per pcs) | | 175*82.9*257.1 | | | |
| SPECIFICATION | G.W (kg) | | 3kg/pcs | | | | | |
| S | Package Dimension (W*H*D) | 625*366*232 mm (4pcs / Carton) | | | | | | |
| | Gross Weight (kg) | 14kg | | | | | | |
| | Environmental Rating | | | Indoor | | | | |
| OTHER | Operation Temperature Range | | -10~55℃ 0~90% relative humidity (non-condensing) | | | | | |
| | Ambient Humidity | | u~9u% rela | | condensing) | | | |
| | Altiude | ≤3000m | | | | | | |

Solar Controller

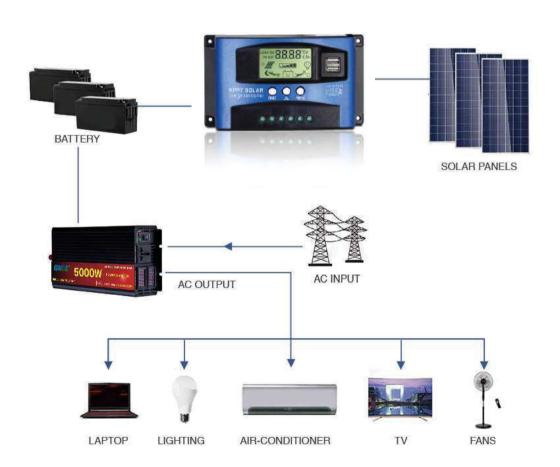
ICharger MPPT 30-100A MPPT Solar Charge Controller



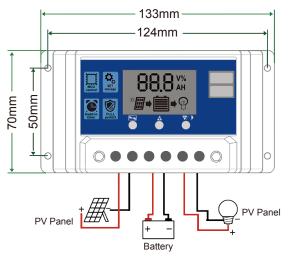
- industrial-grade master chip, 16 AD sampling accuracy, temperature, charging current, discharge current accurate real-time display, power generation at a glance
- Automatic focusing MPPT tracking charging, high charging friciency, non-stop detection during charging, bidirectional focusing tracking large-screen LCD display, adjustable charging and discharging parameters. Ultra-wide charge and discharge adjustable, as long as you understand the characteristics of the battery set its corresponding charging parameters, you can charge a battery. When the output is off, the time can be adjusted, which is more convenient (on the market, there is no point adjustment).
- a complete three-phase charge management, effectively protect the battery,
- built-in overheating, overcurrent, short circuit, open circuit protection, reverse connection durable.protection, when the fault is eliminated, the controller automatically recovers, does not damage the device
- bidirectional MOS tube anti-backflow circuit, high-power charging mode, ultra-low heat.
 R5.0 solar charging DC plug, R5.0 DC lamp output DC plug, convenient connection

System connection diagram:

MPPT SOLAR CHARGE CONTROLLER



System Connection



- Connect the battery to the charge regulator-plus and minus.
- Connect the photovoltalc module to the regulator-plus and
- minus.

The reverse step applies when uninstalling!

An incorrect sequence step can damage the controller!

Browsing interface Press MENU to browse different interface Set parameter In interface 2-5, press and hold key [UP] for five seconds, restoring defaults, press and hold key [MENU] I for five seconds, into manual settings, the number will flash at this time, press keys [UP] and [Down] Type of battery Browsing interface Float voltage Discharge reco Discharge reco

I to adjust parameter values, when finished, pressing key [MENU] for

O Discharge stop

5s to exit setting.

6 work mode

LCD DISPLAY / SETTING

Parameter Details

| Batt voltage | | 12V/24V auto | | | | | |
|------------------------|---------------------------|---|--------------------|-------|------|--|--|
| Charge current | 30A | 40A | 50A | 60A | 100A | | |
| Discharge current | 10A | 10A | 20A | 20A | 30A | | |
| Max solar input | 12V bat 24V ba | 12V battery, the highest 23V; 24V battery when the highest 46V | | | | | |
| Equalization | 14.4V | 14.4V | | | | | |
| Float charge | 13.7V (defaul,adjustable) | | | | | | |
| Discharge stop | 10.7V (d | defaul,ad | justable) | | | | |
| Discharge reconnect | 12.6V(d | efaul,adj | ustable) | | | | |
| Charge reconnect | 13V | | | | | | |
| Voltage of open light | Solar pa | nel <mark>8V</mark> (Lig | ıht lights d | elay) | | | |
| Voltage of close light | Solar pa | nel <mark>8V</mark> (Li | ght off dela | ay) | | | |
| USB output | 2 way U | SB outpu | t, 5V/2.5 <i>A</i> | (MAX) | | | |
| Self-consume | <10mA | | | | | | |
| Operating temperature | -35 ~ +60°C | | | | | | |
| Size/Weight | 170 * 9 | 2 * 45mm | / 450g | | | | |

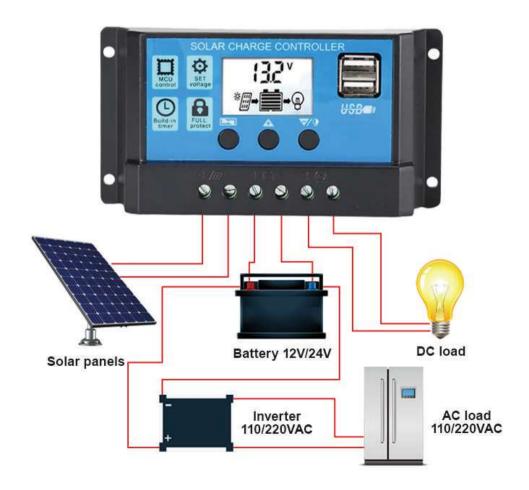
Solar Controller

ICharger PWM 10-60A PWM Solar Charge Controller

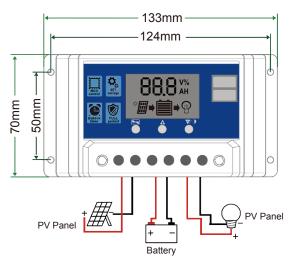


- · Build-in industrial micro controller.
- Big LCD display, all adjustable parameter
- Fully 4-stage PWM charge management
- Build-in short-circuit protection, open-circuit protection reverse protection, over-load protection.
- Dual mosfet Reverse current protection, low heat production.

System connection diagram:



System Connection

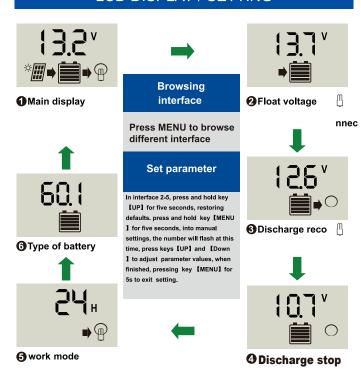


- Connect the battery to the charge regulator-plus and minus.
- Connect the photovoltalc module to the regulator-plus and
- minus.

The reverse step applies when uninstalling!

An incorrect sequence step can damage the controller!

LCD DISPLAY / SETTING



Parameter Details

| MODEL | PWM 10A | PWM 20A | PWM 30A | PWM 40A | PWM 50A | PWM 60A | |
|------------------------|-----------------------------|--------------------------|----------------------------|------------------|---------|---------|--|
| Battery Voltage | | 12V 24V Auto | | | | | |
| Charging Current | 10A | 20A | 30A | 40A | 50A | 60A | |
| Discharging Current | 10A | 10A | 10A | 20A | 30A | 30A | |
| Max Solar input | | 50V(fo | r 24V battery) | 25V(for 12V b | attery) | | |
| Equalization | | 14.4V | (Sealed) 14.2 ^v | V(Gel) 14.6V(F | Flood) | | |
| Float charge | | 13.7V(defaul,adjustable) | | | | | |
| Discharge stop | | | 10.7V(defau | l,adjustable) | | | |
| Discharge reconnect | | | 12.6V(defau | l,adjustable) | | | |
| Charge reconnect | | | 13 | 3V | | | |
| Voltage of open light | | S | olar Panel 8V | (Light lights de | elay) | | |
| Voltage of close light | | S | olar Panel 8V | (Light off delay | y) | | |
| USB output | 5V/3A | | | | | | |
| Self-consume | <10mA | | | | | | |
| Operating temperature | -35°C~+60°C | | | | | | |
| Size | 133.5*70*35mm 133.5*70*35mm | | | | | | |

Solar Controller

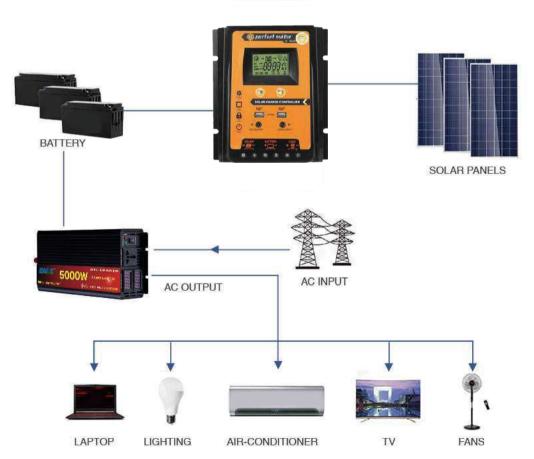
ICharger MPPT SC 30-70A MPPT Solar Charge Controller



- Automatic Identification System Voltage, 12/24V auto recognition.
- Humanized LCD displaying and double button operation of man-machine interface
- Completed techical data for setup and modify
- The load control mode can be selected, the timer function can be reset for street light at night Discharge capacity control
- Discharge Counter of Ampere Hour
- Working Storage Function:record the total run time of system,record timers of error during running time,record times of full charged battery
- Reliable over voltage protection, short circuit protection, over load protection, overcharge protection, over-discharge protection

System connection diagram:

MPPT SOLAR CHARGE CONTROLLER









70A

50A

30A

Icharger MPPT SC 30-70A Specification

| Model | ICharger MPPT SC30A | ICharger MPPT SC50A | ICharger MPPT SC70A | | |
|----------------------------------|---|------------------------|---------------------|--|--|
| System Voltage | 12V / 24V | | | | |
| Max. Input Voltage of sola panel | 55V | | | | |
| Self-consumption | | ≤10mA | | | |
| Max. charge current | 30A | 50A | 70A | | |
| Max. discharge current | SUA | SUA | / | | |
| LVD | 1 | 1.0V ADJ 9V 12V; ×2/24 | ₽V | | |
| LVR | 12. | 6V ADJ 11V 13.5V; ×2/2 | 24V | | |
| Float Voltage | 13 | .8V ADJ 11V 13V; ×2/2 | 4V | | |
| Boost charging | 14.4V; ×2/24V Batler Voltage less than 12V start boost charging 2 hours | | | | |
| Battery Ovev Voltage Protection | | 16.5V;×2/24V | | | |
| Reverse Connection Protection | yes | | | | |
| Load Over Current Protection | Yes,each two minutes restart once | | | | |
| Temperature Compensation | -24 mV/℃ for 12V system;×2/24V | | | | |
| Working Temperature | -20℃ +55℃ | | | | |
| Waterproof grade | IP32 | | | | |
| Size (mm) | 175.9×139×40.1 | 209.3×191.7×52.9 | 229.4×201×54.7 | | |
| USB | 5V 2.1A | | | | |
| DC output | 12V / 24V | | | | |
| Net weight (kg) | 0.38 0.75 1.16 | | | | |

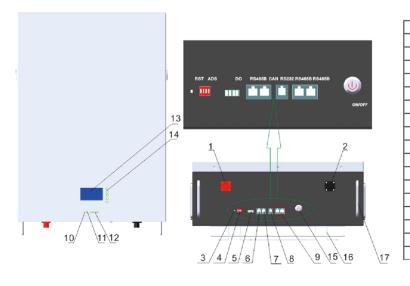
Battery



IBattery TJ-Battery wall series:

- 1.LiFePO4 composition provides exceptional safety and longevity
- 2. High safety and reliability
- 3.6,000cycles/10 year service life
- 4. Consistent performance over wide temperature range
- 5. Wall-mounted, convenient installation
- 6.Integrated state-of-the-art BMS to manage and monitor battery information including voltage, current and temperature as well as balance cell charging/discharging rates
- 7.5-10 year warranty

Product overview:



| No. | Description | Silk-screen | Remark |
|-----|-------------------|-------------|--|
| 1 | UES0600 | P+ P+ | Output terminal |
| 2 | UES0600 | P- P- | Output terminal |
| 3 | port Reset button | RST | For reset the batter |
| 4 | Dial switch | ADS | Set the address |
| 5 | Do | | |
| 6 | CANbus Port | CANbus | CANbus and inverter connection port |
| 7 | RS485A Port | RS485 | RS485 and inverter connection port |
| 8 | RS232 Port | RS232 | RS232 communication port |
| 9 | RS485B port | RS485 | RS485 parallel communication interface |
| 10 | LED | RUN | Operation indicator |
| 11 | LED | ALM | Alarm indicator |
| 12 | LED | CAPACITY | Capacity indicator |
| 13 | LCD | | |
| 14 | LCD Key | | |
| 15 | Switch | | |
| 16 | Bracket | | |
| 17 | Handle | | |
| | | | |

Technical Specifications-Battery wall Series

| Model | TGPRO-5000W | TGPRO-7000W | TGPRO-10000W | | |
|---------------------------------|---|--|--------------|--|--|
| Nominal Voltage | 51.2V(16series) | | | | |
| Capacity | 100Ah | 200Ah | | | |
| Energy | 5120Wh | 10240Wh | | | |
| Internal Resistance | | ≤30m Ω | | | |
| Cycle Life | | 000 cycles @ 80% DOD, 25℃, 0. 000 cycles @ 80% DOD, 40℃, 0. | | | |
| Design Life | | ≥10 years | | | |
| Charge Cut-off Voltage | 56.0V±0.5V | | | | |
| Max. Continuous Work Current | 100A/150A(Can choose) | | | | |
| Discharge Cut-off Voltage | 45V±0.2V | | | | |
| Charge Temperature | 0°C~60°C (Under 0°C extra heating mechanism) | | | | |
| Discharge Temperature | -20℃~60℃ (Under 0℃work with reduced capacity) | | | | |
| Storage Temperature | -40℃~55℃ @ 60%±25% relative humidity | | | | |
| Dimensions | 680 x485 x180(220)mm | | | | |
| Weight | Approx: 62kg | Approx: 79kg | Approx: 98kg | | |
| Protocol (optional) | RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter | | | | |
| Certification | UN38.3,MSDS,UL1973(Cell),IEC62619(Cell) | | | | |

Battery



Performance:

Compared with traditional lead-acid batteries, lithium battery packs are small and light.

Advantage:

- 1. Environmental protection;
- 2. Light weight: only 30% of the weight of lead-acid batteries;
- 3. Long life: more than 2000 cycle life, life up to 10 years;
- 4. High power: provides twice the power output of lead acid batteries;
- 5. Temp. Range: low temperature discharge is better than lead-acid batteries.
- 6. Flexibility: modular design, can realize 4 series, multiple parallel.

LFP Battery Application:



Home energy storage



Solar street light



RV



UPS



base station back up



Electric wheelchair



power boating



FV



Golf cart



Emergency

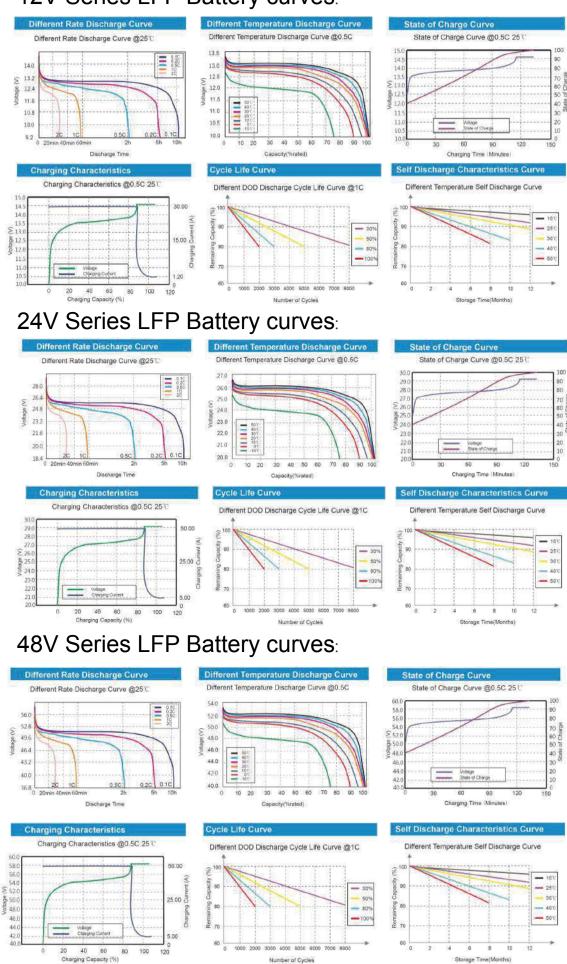


fishing



radio communication

12V Series LFP Battery curves:



| Model | IPower-1000W | IPower-1.6K | IPower-2.2K | IPower-3K | | |
|-----------------|--------------------------|--------------|--------------|--------------|--|--|
| Peak power | 1000W | 1600W | 2200W | 3000W | | |
| Rated power | 500W | 800W | 1100W | 1500W | | |
| Output voltage | 220V±10%/110V±10% | | | | | |
| Output frquency | 50HZ/60HZ | | | | | |
| Input voltage | 12V/24V/48V/60V optional | | | | | |
| Size | 195*100*60mm | 250*110*55mm | 280*110*60mm | 290*120*70mm | | |
| Net weight | 0.85kg | 1.1kg | 1.45kg | 1.65kg | | |



Peakpower:1000W Ratedpower:500W

Outputvoltage:220V±10%/110V±10%

Outputfrquency:50/60HZ Inputvoltage:12/24/48/60V

Size:19.5*10*6cm Packageweighi:0.85kg



Peakpower:1600W Ratedpower:800W

Outputvoltage:220V±10%/110V±10%

Outputfrquency:50/60HZ Inputvoltage:12/24/48/60V

Size:25*11*5.5cm Packageweighi:1.1kg



Peakpower:2200W Ratedpower:1100W

Outputvoltage:220V±10%/110V±10%

Outputfrquency:50/60HZ Inputvoltage:12/24/48/60V

Size:28*11*6cm

Packageweighi:1.05kg



Peakpower:3000W Ratedpower:1500W

Outputvoltage:220V±10%/110V±10%

Outputfrquency:50/60HZ Inputvoltage:12/24/48/60V

Size:29*12*7cm

Packageweighi:1.25kg

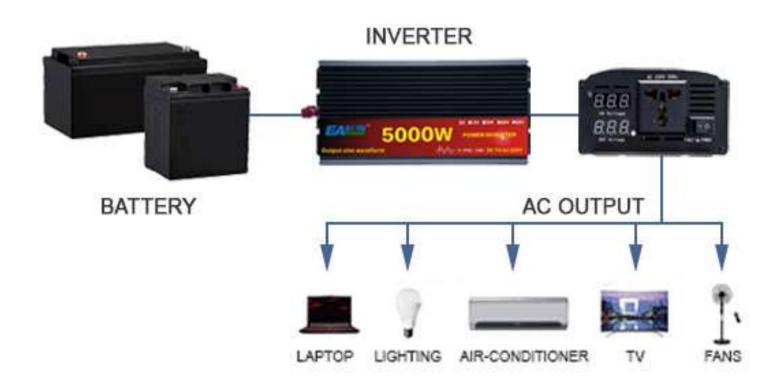
IPower inverter

IPOWER 1-8KW PURE SINE WAVE INVERTER



- Aluminum magnesium alloy shell, light weight, good thermal conductivity can quickly reduce the temperature of parts, long-term work is not affected
- Using STM chip technology, high rlilityt strong impact resistance, low solder joint defect rate, reducing battery and radio frequency interference
- Up to 93% conversion rate, 30% conversion loss, 30% continuous power
- The itelligent temperature control fan makes the inverter quieter.
 When the temperature is ≤45° C, the fan stops working, when the temperature is ≥45° C the fan starts to work.
- Pure sine wave inverter, intelligent filter, no interference to household appliances, protection of electrical appliances

System connection diagram:





Peakpower:1000W Outputvoltage:110/220V Inputvoltage:12/24/48/60V

Packageweighi:1kg

Ratedpower:500W Outputfrquency:50HZ Size:19*10*5.7cm



Peakpower:2000W
Ratedpower:1000W
Outputvoltage:110/220V
Outputfrquency:50HZ
Inputvoltage:12/24V
Size:34.5*17.5*7.5cm
Packageweighi:2kg



Peakpower:3000W Ratedpower:1500W Outputvoltage:110/220V Outputfrquency:50HZ Inputvoltage:12/24V Size:35*22*14cm Packageweighi:2.35kg



Peakpower:4000W Ratedpower:2000W Outputvoltage:110/220V Outputfrquency:50HZ Inputvoltage:12/24V Size:40*22*14cm Packageweighi:2.75kg



Peakpower:5000W Ratedpower:2500W Outputvoltage:110/220V Outputfrquency:50HZ Inputvoltage:12/24V Size:40*22*14cm Packageweighi:2.75kg

1KG

Net weight

2KG



Peakpower:6000W Ratedpower:3000W Outputvoltage:110/220V Outputfrquency:50HZ Inputvoltage:12/24/48/60V

Size:36.8*22*90cm Packageweighi:5kg

2.35KG



Peakpower:8000W Ratedpower:4000W Outputvoltage:110/220V Outputfrquency:50HZ Inputvoltage:12/24/48/60V

Size:46.8*22*90cm Packageweighi:6.3kg

5KG

6.3KG

| IPower 1000W | IPower 2000W | IPower 3000W | IPower 4000W | IPower 5000W | Inverter 6000W | Inverter 8000W | |
|-------------------------|----------------------------------|--|--|---|--|--|--|
| 1000W | 2000W | 3000W | 4000W | 5000W | 6000W | 8000W | |
| 500W | 1000W | 1500W | 2000W | 2500W | 2800W | 34000W | |
| Pure sine wave inverter | | | | | | | |
| 110/220V | | | | | | | |
| 50Hz | | | | | | | |
| 12V/24V/48V/60V | | 12V/24V | | | 12V/24V/48V/60V | | |
| 190*103*57mm | 345*175*75mm | 350*220*140mm | 400*220*140mm | 400*220*140mm | 368*220*900mm | 468*220*900mm | |
| | 1000W 500W 12V/24V/48V/60V | 1000W 2000W 500W 1000W 12V/24V/48V/60V | 1000W 2000W 3000W 500W 1000W 1500W Pu 12V/24V/48V/60V 12V | 1000W 2000W 3000W 4000W 500W 1000W 1500W 2000W Pure sine wave inver 110/220V 50Hz 12V/24V | 1000W 2000W 3000W 4000W 5000W 500W 1000W 1500W 2000W 2500W Pure sine wave inverter 110/220V 50Hz 12V/24V/48V/60V 12V/24V | 1000W 2000W 3000W 4000W 5000W 6000W 500W 1000W 1500W 2000W 2500W 2800W Pure sine wave inverter 110/220V 50Hz 12V/24V/48V/60V 12V/24V 12V/24V | |

2.7KG

2.8KG

IPower inverter

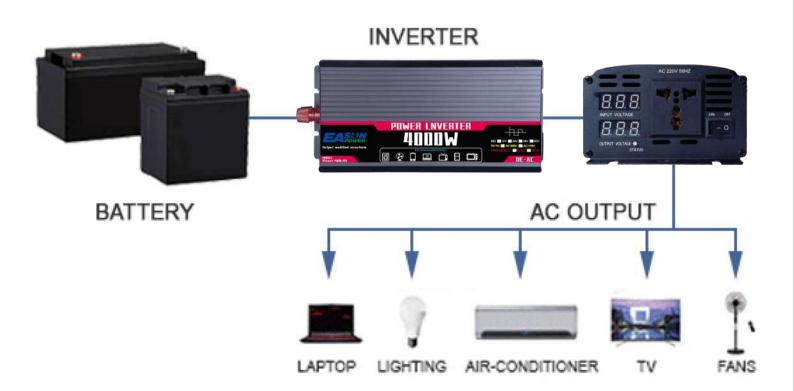


IPOWER 1.2-5KW Modified Sine Wave Inverter

Multiple protection functions Plastic shell,non-conductive,safer External insurance,easy to replace

| Model | lpower-1.2k-MV | lpower-1.8k-MV | lpower-2.2k-MV | lpower-3k-MV | lpower-3.5k-MV | lpower-4k-MV | lpower-5k-MV | | |
|-------------------------|--------------------------|--------------------|----------------|--------------|----------------|--------------|--------------|--|--|
| Peak power | 1200W | 1800W | 2200W | 3000W | 3500W | 4000W | 5000W | | |
| Rated power | 550W | 900W | 1100W | 1300W | 1600W | 1900W | 2300W | | |
| Waveform Output Voltage | | Modified sine wave | | | | | | | |
| Output voltage | 220V±10%/110V±10% | | | | | | | | |
| Output frquency | 50HZ/60HZ | | | | | | | | |
| Input voltage | 12V/24V/48V/60V Optional | | | | | | | | |
| Size | 163*100*55mm | 182*107*62mm | 223*107*62mm | 232*107*62mm | 250*120*70mm | 271*150*70mm | 320*150*90mm | | |
| Net weight | 700g | 850g | 950g | 1100g | 1350g | 1500g | 2300g | | |

System connection diagram:





Peak power:1200W Rated power:550W

Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:163*100*55mm Package weighi:700g



Peak power:2200W Rated power:1100W Output voltage:110V/22

Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:223*107*62mm Package weighi:950g



Peak power:3500W Rated power:1600W Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:250*120*70mm

Package weighi:1350g



Peak power:1800W Rated power:900W

Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:182*107*62mm Package weighi:850g



Peak power:3000W Rated power:1500W Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V

Size:232*100*62mm Package weighi:1100g



Peak power:4000W Rated power:1900W Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:271*150*70mm Package weighi:1500g



Peak power:5000W Rated power:2300W Output voltage:110V/220V Output frquency:50/60HZ Input voltage:12/24/48/60V Size:320*150*90mm Package weighi:2300g

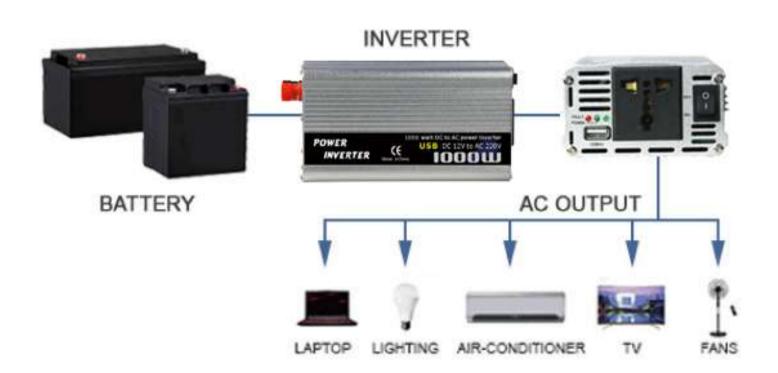
IPower inverter

IPOWER 1-2KW Modified Sine Wave Inverter



- Suitable for nominal power home appliance and equipments, such as phone,computer,lamp,camera,TV,shaver,CD,fan and so on
- With small, novel structure and appearance.
- Equipped with national, American, European and Australian standard plug.
- With over 86% of conversion efficiency.
- Six protection functions(overheat, over voltage, under voltage, overload, over current etc)
- Adopting special process transformer, making the inverters work more stable and reliable, and with more load capacity etc.

System connection diagram:



Accessories

MC4:



Wifi Module:











Parallel pcb board:







Accessories

Voltage Converter







Wifi Port







Plug Pro Series pluggable data logger can support Wi-Fi, GPRS, 4G, NB-IOT and other communication modes, through DB9, aviation head, RJ-45 and other terminal connection modes. Perfect compatibility with all brands of inverter, energy storage machine and other equipment. Support remote control, debugging, upgrading and other functions, and provide users with remote, low-cost, visual, remote operation monitoring scheme.





Plug and play no wiring required

Energy storage industry application

Energy storage monitoring platform is a monitoring and management system for energy storage machine. The data of energy storage equipment is collected in all directions, analyzed with big data and processed with cloud platform technology. It can provide guidance for peak shaving, peak load regulation, frequency modulation and voltage regulation, so as to effectively smooth the power output and reduce the impact on the grid output as planned.



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To offer better service

Welcome to contact us:

TEL: 86-755-85200195

Email: Avy@easunpower.com