EASUN POWER

Best Choice For Solar

FIND GLOBAL PARTNER

Local Partner

To expand global presence

Local Support

To offer better service

Welcome to contact us:

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EASUN POWER

Best Choice For Solar

BEST CHOICE FOR SOLAR

Easun Power Technology Corp Limited

Web:WWW.POWLAND.NET

COMPANY PROFILE

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

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

KEY VALUE
BEST CHOICE FOR SOLAR

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

About Us:

Easun Power Technology Corp Limited is a leading high-tech enterprise-which established in Shenzhen, China in 2012. A professional andvigorous new energy company with dedication to bring green energyto the world. We offers a full range of Solar product including : Solar inverters/ SolarCharge Controllers / Power inverters / Batteries/ Solar panels / SolarAccessories, etc. Our products are now capable of meeting requirementsfor both residential and commercial applications.

DEVELOPMENT HISTORY

2012

EASUN POWER TECH-NOLOGY CORP LIMITED was established in Hong Kong

2013-2015

Business expansion in solar industry
Solar inverter series SM SP SMD series available on the market

2016

EASUN POWER brand was created
Official stores opened in different platforms

2018

POWLAND brand was created Developing &Designing new solar inverters and control-lers

2021

Powgrow brand was created
4th Generation inverters with touch screen and RGB lights available

2022

Emerge on battery business
Power wall battery, battery pack, LFP battery with BMS

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

Product system upgrade

Perfect warranty

System design

Market decelopment support

Technical support for bidding projects

Installation Instructions

MARKETS SHARE

EASUN has provided solar products and related service to over 180countries in the past 10 years , and we're aiming to provide more qualityproducts and good service our clients.To make sure our clients could get instant support, we now are co-operatedwith agents from different countries, also to expand our business we'relooking for more partners to join us, let's work together and make a betterbusiness and life

INVERTER USING SCENARIO

Solar energy storage

Planting breeding base

Mountain communication base station

UPS uninterruptible power supply

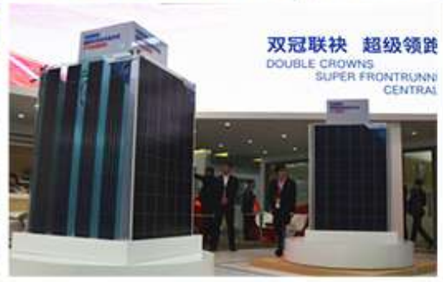
Home energy storage

Communication base station energy storage

RV Outdoor Electricity

Medical System Equipment

Exhibition display



CERTIFICATE:CE ROHS FCC ETL EMC

ISolar SMG II 3.6-5.6KW WIFI

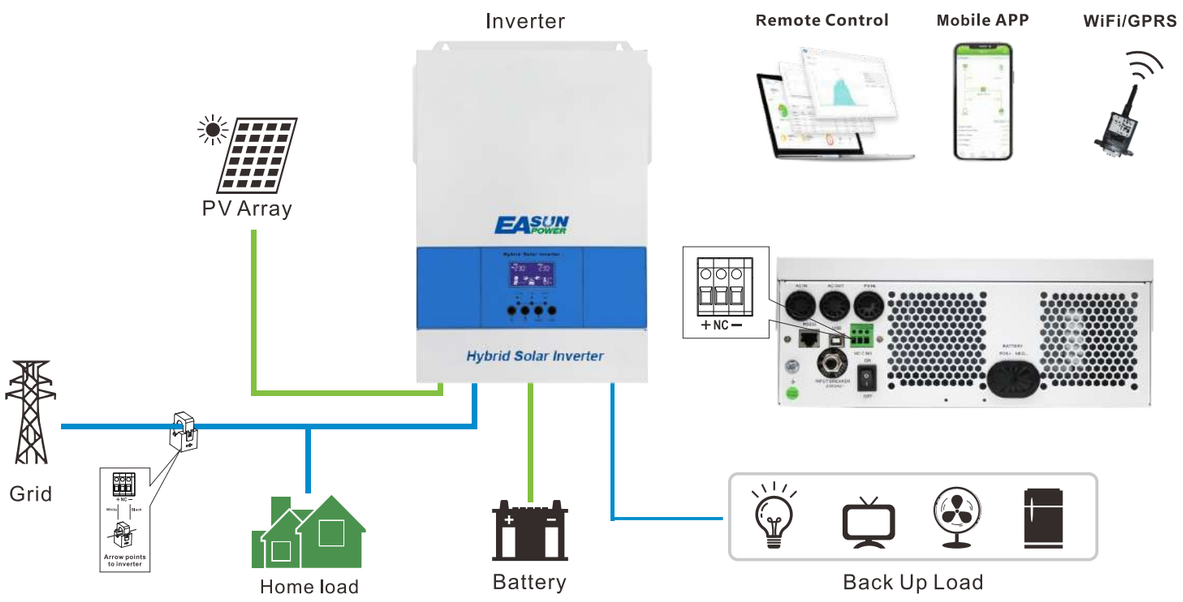
MPPT Solar Inverter

Features

- Pure sine wave solar inverter
- Output power factor 1.0
- High PV input voltage range
- Built-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)
- Detachble LCD(Optional)

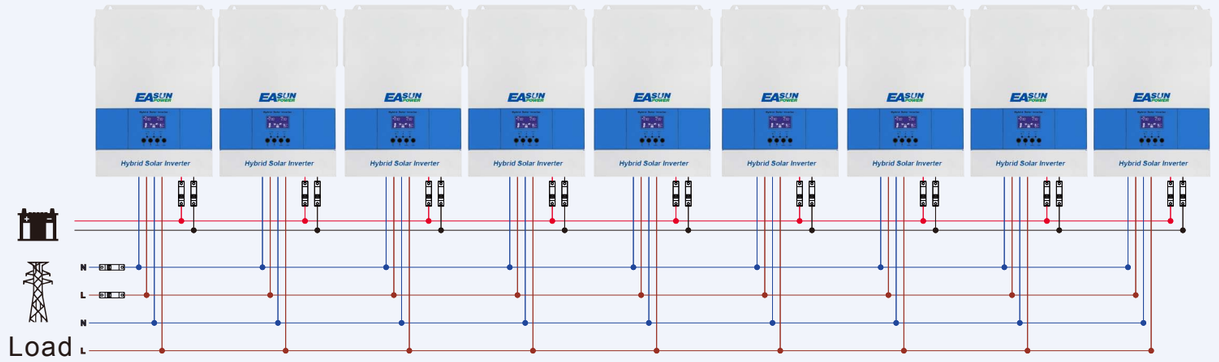
This is a multi-functional inverter/charger, combining functions of inverter.solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user -configurable and easy-accessible button operation such as battery charging current,AC/solar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

Application Diagram



Parallel operation

Note:3.6KW model does not support parallel



ISolar SMG II Technical parameters

MODEL	ISolar SMG II 3.6KW	ISolar SMG II 5.6KP
CAPACITY	3 6KVA/3 6KW	5 6KVA/5 6KW
Parallel Capability	NO	**Yes,9pcs**
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC ±5%	
Surge Power	7000VA	11000VA
Frequency		
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
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
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC/CV	
Solar Charger & AC Charger		
Solar Charger TYPE	MPPT	
Max.PV Array Power	4000W	5500 W
Max. PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	120VDC~450VDC	
Max. Solar Input Current	15A	18A
Max. Solar Charge Current	100A	100A
Max. AC Charge Current	60A	60A
Max. Charge Current	100A	100A
PHYSICAL		
Dimensions, D x W x H(mm)	482x290x113	
Package Dimensions, D x W x H(mm)	565x380x190	
Net Weight (Kgs)	9	10
Communication Interface	USB/RS232/Dry-contact	
ENVIRONMENT		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

Product specifications are subject to change without further notice.

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ISolar SMX II 3.6-5.6KW WIFI

MPPT Solar Inverter

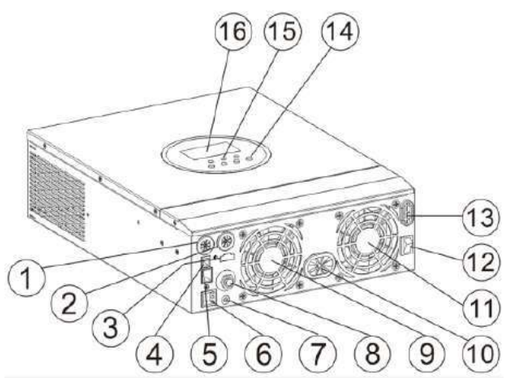
Features

- 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 forAC 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.

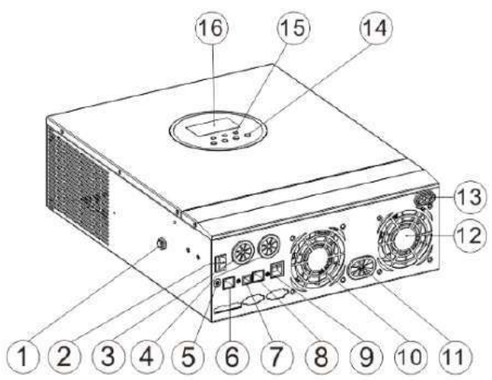
Product Introduction

Appearance 3.6KW:



①	AC input port	⑨	Cooling fan
②	AC output port	⑩	Battery port
③	CAN communication port	⑪	Cooling fan
④	USB communication port	⑫	ON/OFF rocker switch
⑤	Rs 485 communication port	⑬	PV port
⑥	Dry contact port	⑭	Touch button
⑦	Grounding screw hole	⑮	LED Indicator
⑧	Overload protector	⑯	LCD screen

Appearance 5.6KW:



①	Overload protector	⑨	Dry contact port
②	ON/OFF rocker switch	⑩	Cooling fan
③	AC input port	⑪	Battery port
④	AC output port	⑫	Cooling fan
⑤	Grounding screw hold	⑬	PV port
⑥	RS 485-2 communication port	⑭	Touch the key lightly
⑦	USB communication port	⑮	Indicator light
⑧	RS 485-1 communication port	⑯	LCD screen

Parallel operation

Note:3.6KW model does not support parallel

ISolar SMX II Technical parameters

Models	ISolar-SMX-II-3.6KW	ISolar-SMX-II-5.6KW
Capacity	3.6KVA/3.6KW	5.6KVA/5.6KW
Parallel Capability	No	1-6Pcs
AC mode		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2%；(90Vac-280Vac)±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	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (typical)	
AC reverse protection	Available	
Maximum bypass overload current	30A	40A
Inverter mode		
Output voltage waveform	Pure sine 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	20.0Vdc~33Vdc ± 0.6Vdc (Undervoltage 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 charging 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		
Certification	CE(IEC 62109-1)	
EMC certification level	EN61000, C2	
Operating temperature range	-15°C to 55°C	
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

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ISolar SPL 5KW 48V

PWM Solar Inverter

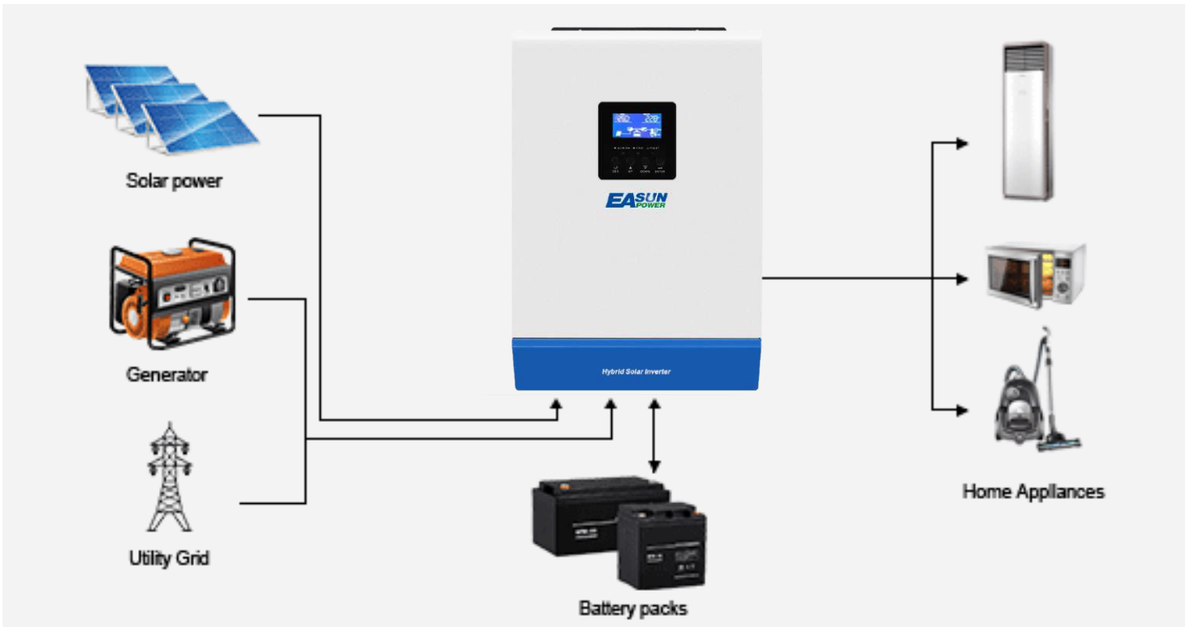
Features

- Pure sine wave inverter
- Built-in PWM solar charge controller
- Selectable input voltage range and frequency accord ing to city
- Power in your countr
- Charging current is setable according to your battery type
- 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 charging system optimizes battery performance
- Cold start function

SIntroduction

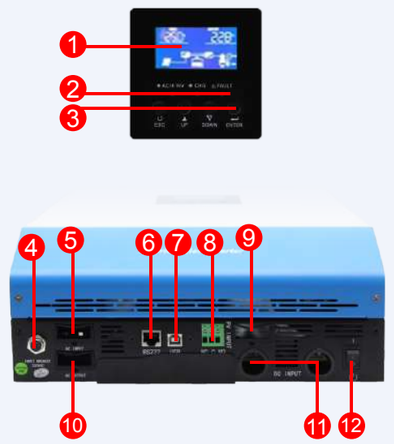
Equipped with PWM solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, Integrated interface system, It's light and handy, making installation easier. It's the ideal inverters for small PV plants, or individually for small houses, both indoors and outdoors.

System Diagram



Product Overview

1.LCD display
2.LED indicators
3.Function keys
4.Circuit Breaker
5.AC Input
6.RS232 Port
7.USB Port
8.Dry Contact
(Genset Starter)
9.PV Input
10.AC Output
11.Battery Input
12. Power Swtich



ISolar SPL 5KW Technical parameters

MODEL	ISolar SPL 5K
Rated Power	5000VA/4000W
INPUT	
Voltage	230VAC
Selectable Voltage Range	170-280 VAC(For Persongl Computers)，90-280 VAC(For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensig)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Sutge Power	10000VA
Efficiency(Peak)	93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For home Appliances)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	60 VDC
Maximum Charge Current	20A or 30A
SOLAR CHARGER(OPTION)	
Charging Current	110VA
Max PV Array Open Circuit Voltage	90 VDC
Standby Power Consumption	2 W
PHYSICAL	
Dimension,D×W×H (mm)	120×295×468
Net Weight(kgs)	9.8
OPERAFTING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operatin Temperature	0℃-55℃
Storage Temperature	15℃- 60℃

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IGrid VX IV 5.6KW WIFI

Hybrid Solar Inverter

Features

- 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%.
- Designed with a LCD screen and 3 LED indicators for dynamic display of system data and operating status.
- ON/OFF rocker switch for AC output control
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan efficiently dissipate heat and extend system life.
- Lithium battery activation by PV solar or mains, allowing access of lead-acid battery and lithium battery.
- 360 ° all-around protection with a number of protection functions.
- Complete protections, including short circuit protection, over voltage and under voltage protection, overload protection, reverse protection, etc.

Application Diagram

Operation with battery connected

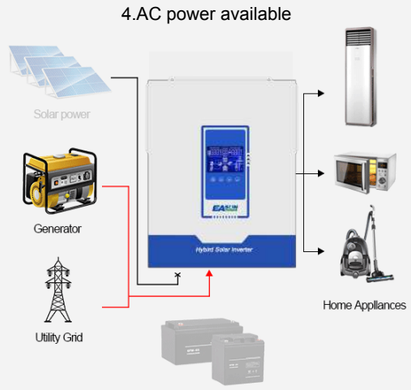
1.Solar power and ac power availabel

2.Solar power and ac power not available

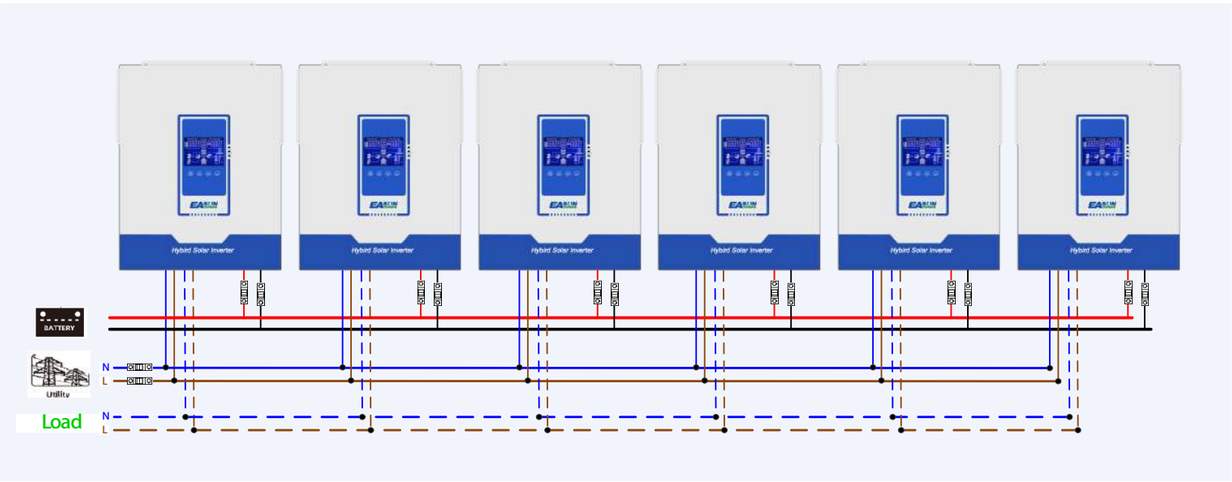
Operation without battery connected

3.Solar pwer available

4.AC power available



Parallel operation



IGrid VX IV Technical Parameter

Model	IGrid-VX-IV-5.6KW-Wifi
Battery Input	
Battery type	Sealed、FLood、GEL、LFP、Ternary
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)
Hybrid Charging Maximum Charging Current	100A
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/ Overvoltage Warning/Overvoltage Recovery...)
Solar Input	
Maximum PV Open-circuit Voltage	500Vdc
PV Working Voltage Range	120-500Vdc
MPPT Voltage Range	120-450Vdc
Maximum PV Input Current	22A
Maximum PV Input Power	6000W
Maximum PV Charging Current	100A
AC Input（generator/grid）	
Mains Maximum Charging Current	60A
Rated Input Voltage	220/230Vac
Input Voltage Range	UPS Mains Mode：(170Vac~280Vac)±2% APL Generator Mode：(90Vac~280Vac)±2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains Charging Efficiency	>95%
Switch Time (bypass and inverter)	10ms(Typical Value)
Maximum Bypass Overload Current	40A
AC Output（Backup power）	
Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage (Vac)	230Vac
Rated Output Power (VA)	5600
Rated Output Power(W)	5600
Peak Power	10000VA
On-load Motor Capacity	4HP
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>92%
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode：≤25W (Manual Setup）
AC Output（Grid）	
Rated Output Power (VA)	5600
Max. apparent power (VA)	5600
Max. output current (A)	24
THDI	＜3%
Rated voltage(V)	230Vac
Frequency	50Hz/60Hz
General	
Number of parallel/split phases	1-6PCS
Certificate	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)/FCC/SAA
EMC Certification Level	EN61000, C2
Working Temperature Range	-10°C ~ 55°C
Storage Temperature Range	-25°C ~ 60°C
Humidity Range	5% to 95%(Conformal Coating Protection)
Dimensions	426mm*322mm*124mm
Weight (KG)	10.5

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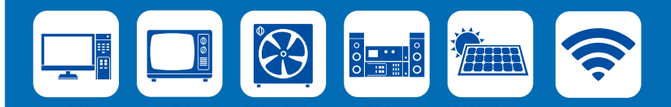
ISolar SMGV II 5.6KW WIFI

MPPT Solar Inverter



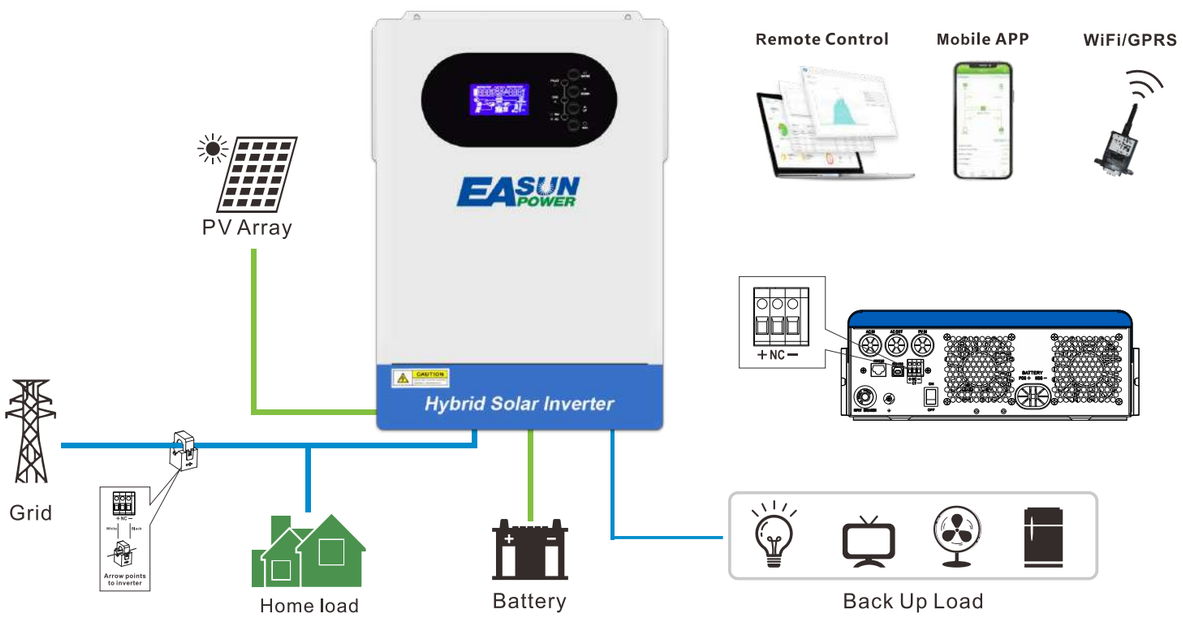
Features

- Pure sine wave
- Output power factor 1.0
- High PV input voltage range 500Vdc Max
- Built-in MPPT solar charge controller
- Detachable dust cover for harsh environment
- Support multiple output priority:UTL, SOL, SBU,SUB
- WiFi remote monitoring optional
- Capable to work without battery
- Battery equalization function to optimize

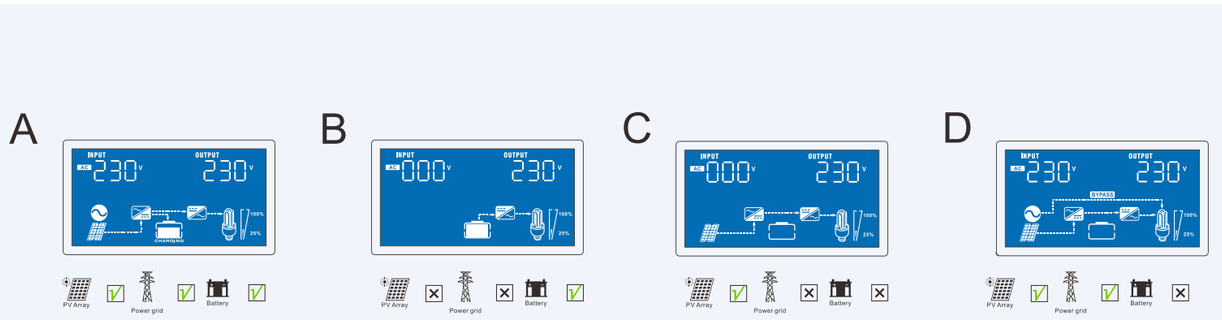
Battery equalization function to optimize

This is a multi-functional inverter/charger, combining functions of inverter,solar charger and batery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user -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



System Diagram



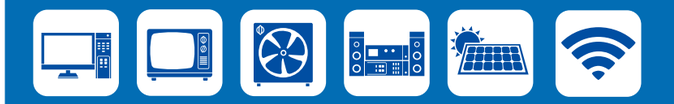
ISolar SMGV II Technical parameters

MODEL	ISolar-SMGV-II 5.6KW
CAPACITY	5.6KVA/5.6KW
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	11000VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	96%
Peak Efficiency(Battery to INV)	93%
Overload Protection	5s@>=150% load; 10s@110%~150% load
Crest Factor	2:1
Admissible Power FACTOR	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger & AC Charger	
Solar Charger TYPE	MPPT
Max.PV Array Power	5500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC~450VDC
Max.Solar Input Current	18A
Max.Solar Charge Current	100A
Max.AC Charge Current	60A
Max.Charge Current	100A
PHYSICAL	
Dimensions,D x W x H(mm)	438x295x105
Package Dimensions,D x W x H(mm)	560x375x185
Net Weight(Kg)	9
Communication Interface	RS232
ENVIRONMENT	
Operating Temperature Range	(-10℃ to 50℃)
Storage temperature	(-15℃ ~ 50℃)
Humidity	5% to 95%Relative Humidity(Non-condensing)

Product specifications are subject to change without further notice.

IGrid SMG IV 5.6KW WIFI

Hybrid Solar Inverter

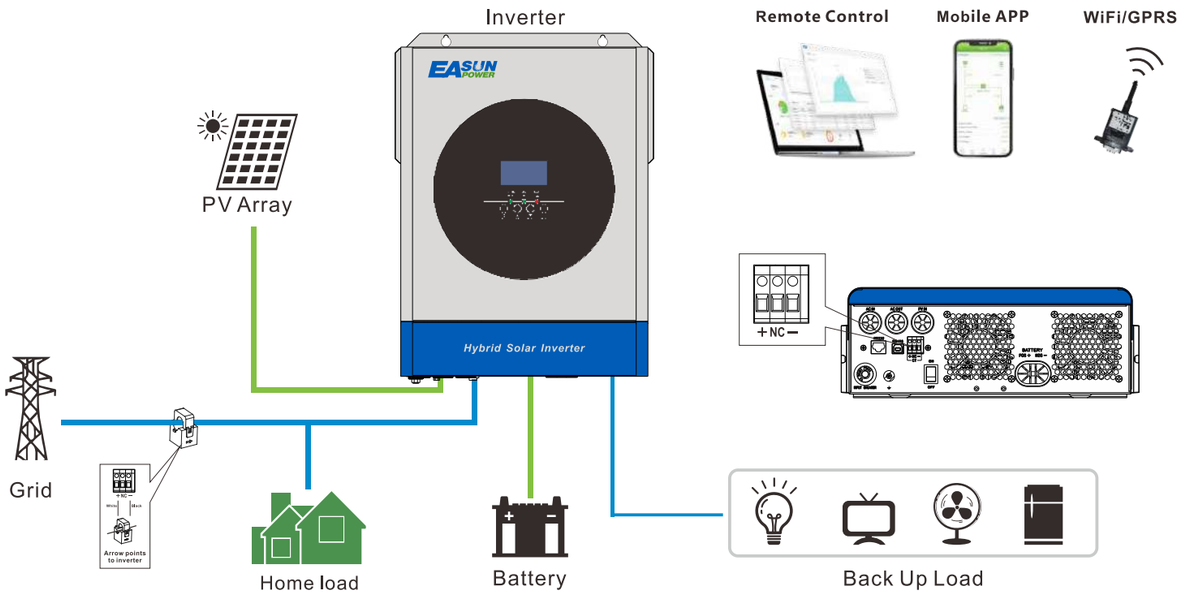


Features

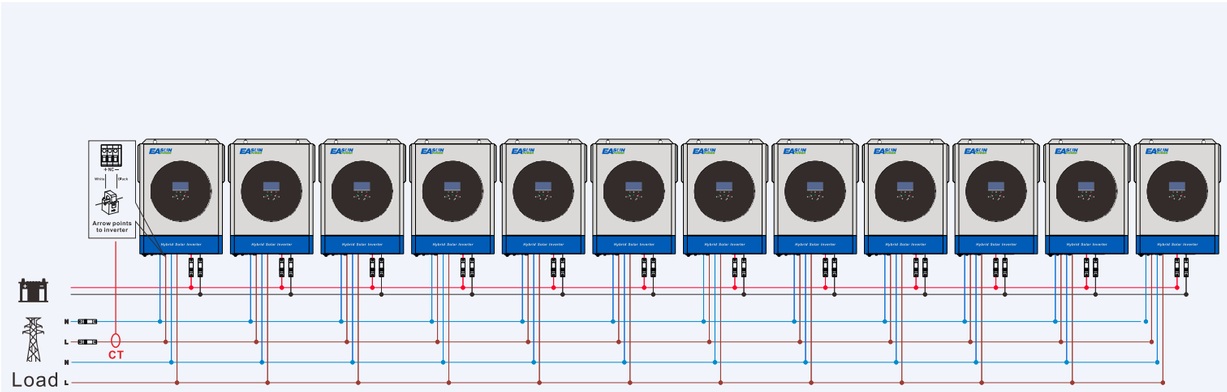
- Output power factor 1.0
- High PV input voltage range 500Vdc Max
- Built-in MPPT solar controller 100A
- WiFi remote monitoring optional
- Reserved communication port for BMS
- Detachable dust cover for harsh environment
- Self-consumption and Feed-in to the grid
- User-adjustable charging current and voltage
- Programmable supply priority for PV , Battery or Grid
- Support multiple output priority: SBU / SUB/SUFIZEC
- Parallel operation up to 12 units , support parallel in 1phase or 3phase
- Battery equalization function to optimize battery performance and extend lifecycle
- Programmable multiple operation modes : Grid-tie , off-grid and grid-tie with backup
- The external CT sensor will provide to detect power flowing back to the grid

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

Application Diagram



Parallel operation



IGrid SMG IV On/Off-Grid Hybrid Solar Inverter

MODEL	IGrid-SMG-IV-5.6KW
PHASE	1-Phase or 3-Phase
MAXIMUM PV INPUT POWER	6000W
RATED OUTPUT POWER	5600VA / 5600W
MAXIMUM CHARGING POWER	5600W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500VDC
Start-up Voltage / Initial Feeding Voltage	150VDC / 120VDC
MPPT Voltage Range	120VDC ~ 450VDC
Number of MPPT Trackers / Maximum Input Current	1 / 18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Output Voltage Range	170-280VAC or 90-280VAC
Nominal Output Current	23.9A
Power Factor	0.6~1 (inductive or capacitive)
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	94%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	100Vac / 90Vac
Acceptable Input Voltage Range	170-280VAC or 90-280VAC
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	500VDC
MPPT Voltage Range	120VDC~450VDC
Number of MPPT Trackers / Maximum Input Current	100A
BATTERY MODE OUTPUT (AC)	1 / 18A
Nominal Output Voltage	
Output Waveform	220/230/240VAC
Efficiency (DC to AC)	Pure Sine wave
HYBRID OPERATION	94%
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC/500VDC
Start-up Voltage / Initial Feeding Voltage	150VDC/120VDC
MPPT Voltage Range	120VDC~450VDC
Number of MPPT Trackers / Maximum Input Current	1/18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	170-280VAC or 90-280VAC
Nominal Output Current	22.7A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	100Vac/90Vac
Acceptable Input Voltage Range	170-280VAC or 90-280VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	48VDC
Efficiency (DC to AC)	94%
BATTERY & CHARGER	
Nominal DC Voltage	48VDC
Maximum Solar Charging Current	100A
Maximum AC Charging Current	60A
Maximum Charging Current	100A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	448*315*122
Net Weight (kgs)	11
INTERFACE	
Parallel Function	1-Phase Parallel*12 / 3-Phase Parallel*12
Communication Port	RS232/RS485
ENVIRONMENT	
Humidity	5%~95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C~55°C

*Product specifications are subject to change without further notice.

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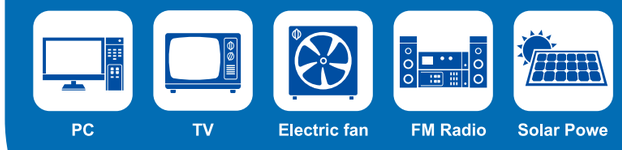
ISolar SPR Series

PWM Solar Inverter



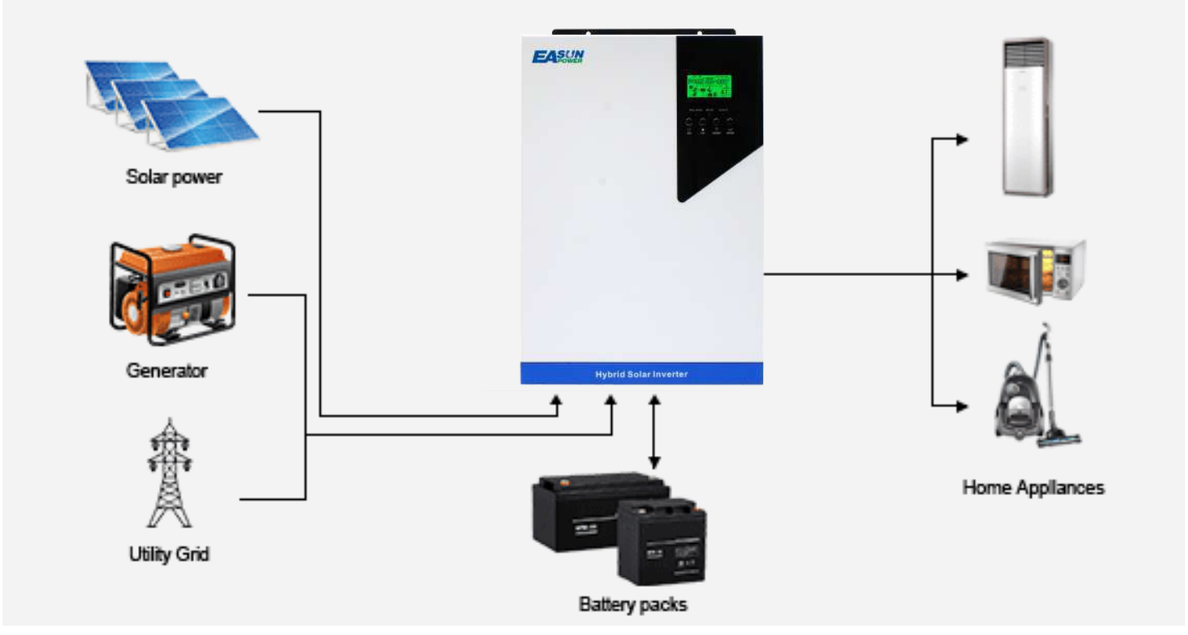
Features

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional anti-dusk kit

SIntroduction

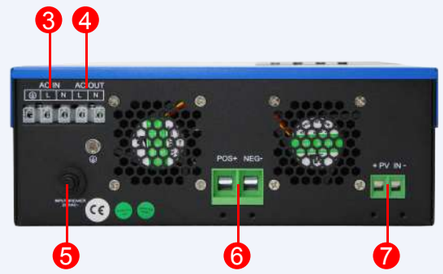
This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar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

System Diagram

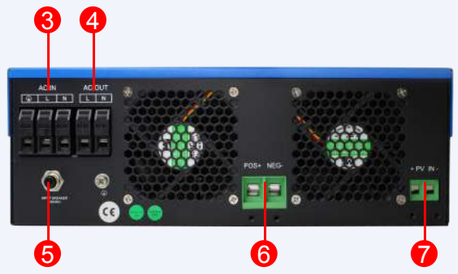


Product Overview

1.Power on/off switch
2.RS-232 communication port
3.AC input 4.AC output
5.Circuit breaker 6.Battery input
7.PV input



1KVA model



5KVA model

ISolar SPR 1KW 5KW Technical parameters

Model	Isolar SPR 1KW	Isolar SPR 5KW
Rated Power	1000VA/1000W	5000VA / 5000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	70-280 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	2000VA	10000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	12 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	54 VDC
Overcharge Protection	16 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	PWM	PWM
Maximum PV Array Open Circuit Voltage	55 VDC	105VDC
Maximum PV Array Power	600 W	2400W
MPPT Range @ Operating Voltage	N/A	
Maxmum Solar Charge Current	50A	50A
Maximum AC Charge Current	20A	60A
Maximum Charge Current	50A	110A
PHYSICAL		
Dimension,D x W x H (mm)	88*225*320	100*300*440
Net Weight (kgs)	4.4	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	

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IGrid SX WP 6KW Wifi

Hybrid Solar Inverter

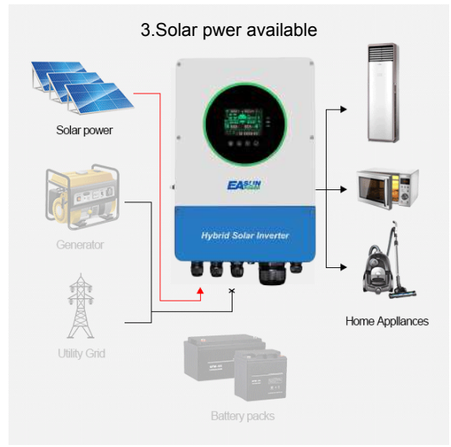
Features

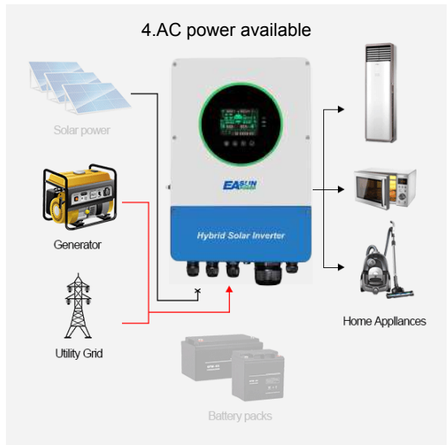
- Anti-counter-current grid-connected function (PV and mains hybrid power supply).
- It has insulation impedance and leakage current detection function.
- Support for use under battery-free conditions.
- It has double activation function of lithium battery, which can be triggered by connecting any mains/PV power.
- With the function of ECO mode and reducing no-load loss.
- There are 4 charging modes available: solar only, Mains Power first, solar first and hybrid charging.
- It has two output modes: Mains Power bypass and inverter output, and has the function of uninterrupted power supply.
- It has multiple protection functions for 360° omni-directional protection.
- Support lead-acid battery and lithium battery access.
- The ON/OFF switch controls the inverter AC output.
- PV Grid-connected power generation mode can be set.
- Advanced MPPT technology, the efficiency is as high as 99.9%
- LCD screen design, 3 LED indicator lights, dynamic display system data and running status.

Application Diagram

Operation with battery connected

Operation without battery connected





Parallel operation

IGrid SX WP Technical Parameter

Model	IGrid-SX-WP-6KW-Wifi	Adjustable
Battery Input		
Battery type	Lead-acid / Li-ion / User Defined	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maximum Charging Current	100A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/ Overvoltage Warning/Overvoltage Recovery...)	√
Solar Input		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	6600W	
Maximum PV Charging Current	100A	√
AC Input (generator/grid)		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode：(170Vac~280Vac)±2% APL Generator Mode：(90Vac~280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output (Backup power)		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac	√
Rated Output Power (VA)	6000	
Rated Output Power(W)	6000	
Peak Power	12000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>90%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode：≤25W (Manual Setup)	
General		
Certificate	CE(IEC62109-1)	
EMC Certification Level	EN61000	
Working Temperature Range	-25°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	0% to 100%	
Waterpro of Gade	IP65	
Dimensions	556mm*345mm*182mm	
Weight (KG)	19.2	

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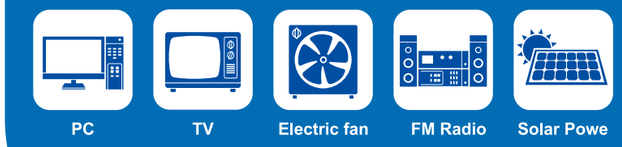
ISolar SPS 3KW 24V

PWM Solar Inverter



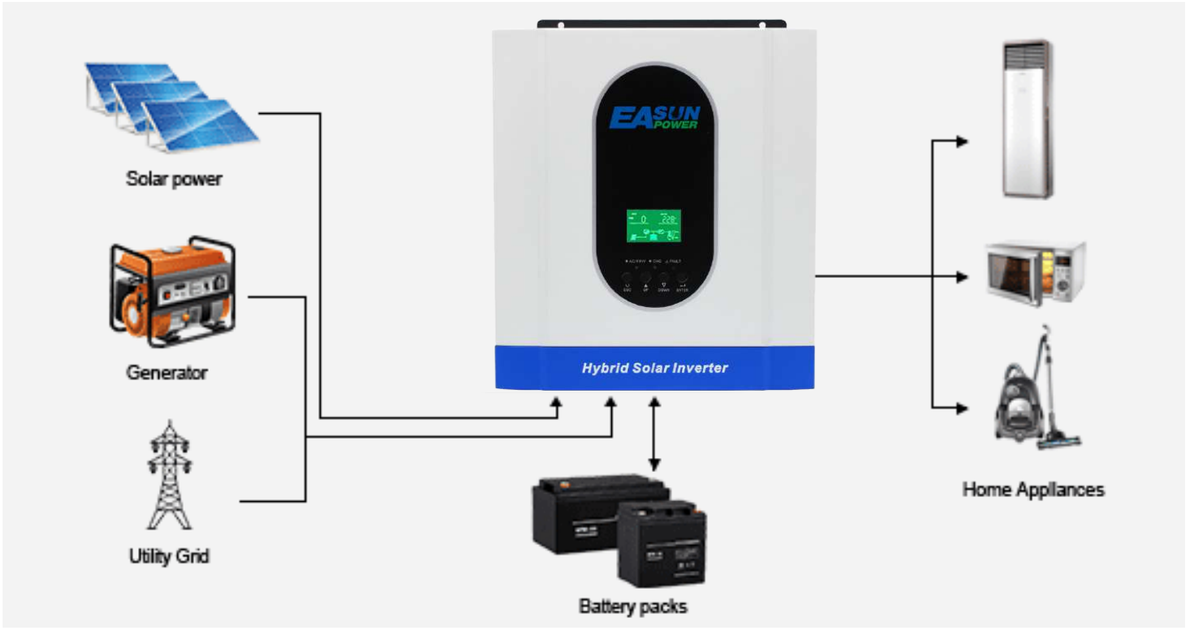
Features

- Pure sine wave inverter
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while Ac is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

SIntroduction

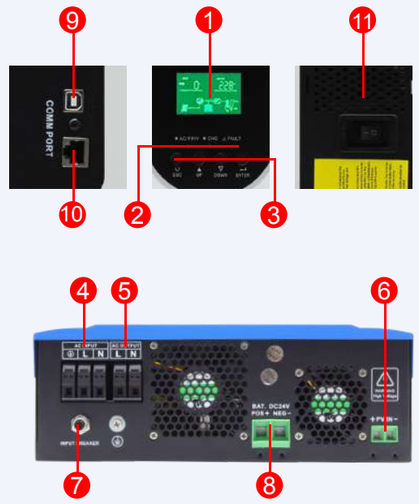
This is a multi-function inverter/charger, combining functions of inverter, solar chargerand battery charger to offer uninterruptible power support with portable size. Itscomprehensive LCD display offers user-configurable and easy-accessible buttonoperation such as battery charging current,AC/solar charger priority, and acceptableinput voltage based on different applications.

System Diagram



Product Overview

1.LCD display
2.LED indicators
3.Function keys
4.AC Input
5.AC Output
6.PV Input
7.Circuit breaker
8.Battery input
9.USB communication Port
10.RS-232 communication Port
11.Power on/off switch



ISolar SPS 3KW Technical parameters

MODEL	Isolar-SPS-3KW
The rated power	3KW
INPUT	
Voltage	230VAC
Selectable Voltage	170-280 VAC(For Persongl Computers)，90-280 VAC(For Home Appliances)
RangeFrequnecy Range	50 Hz/60 Hz (Auto sensig)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Sutge Power	60000VA
Efficiency(Peak)	93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For home Appliances)
Wave form	Pure sine wave
BATTERY	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	32 VDC
SOLAR CHARGER&AC CHARGER	
Maximum PVArray Power	1200W
PWM Range Operation Vol.	18-80VDC
Maximum PV Array Open Circuit Vol.	80VDC
Standby Power Consumption	28W
Maximum Solar Charge Current	PWM 50A
Maximum AC Charge Current	25A
Maximum solar Charge Current	70A
Maximum Efficiency	98%
BEST PANEL CONFIGUTATION	
Max. generated from solar charger	2000VA/2000W
Best Panel configutation	2000VA/2000W
PHYSICAL	
Dimension,D*W*H(mm)	363*297*107MM
Net Weight (kgs)	6.8
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operation Temperature	0C-50°C

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ISolar SMH SPH 3KW

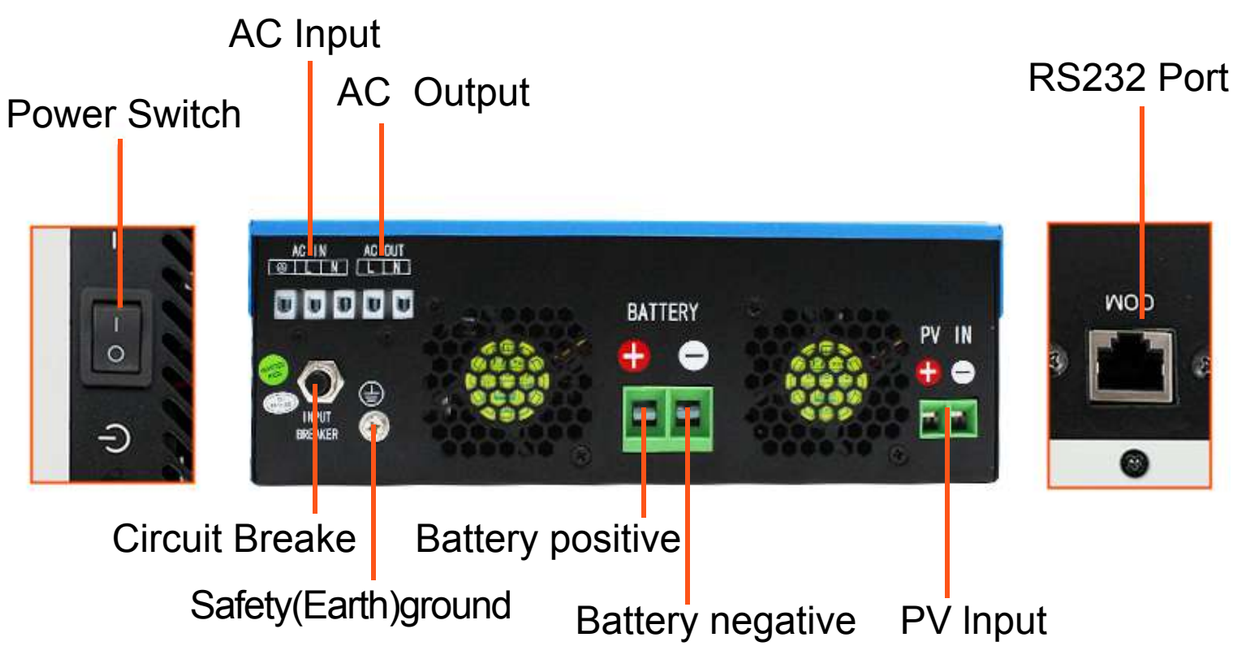
Solar Inverter

Features

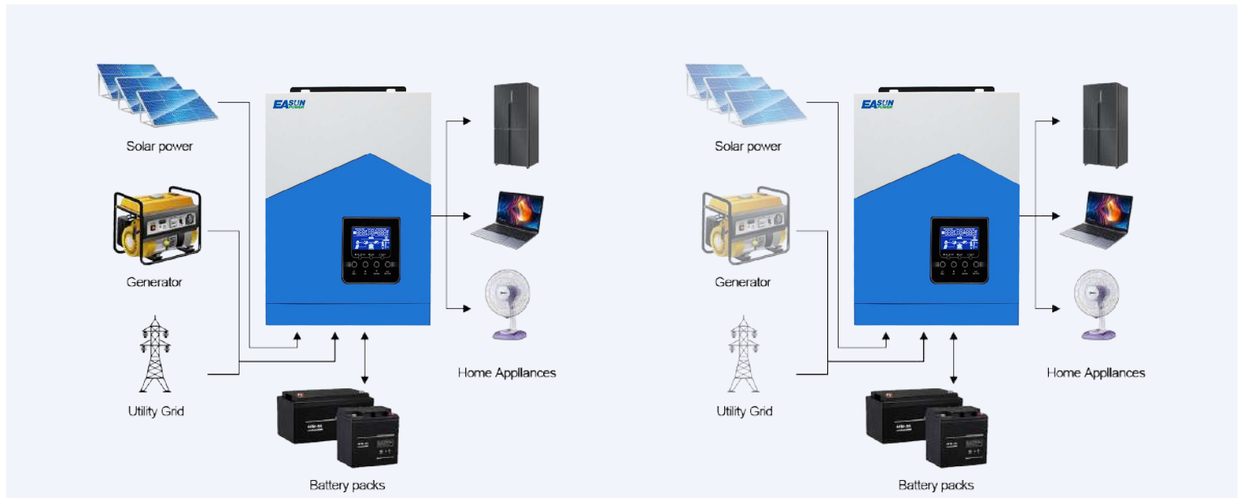
- Pure sine wave inverter
- Auto restart while AC is recovering
- Compatible to mains voltage or generator power
- Configurable AC/Solar Charger priority via LCD setting
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

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

Product Overview



System Diagram for Optional



ISolar inverter Technical parameters

MODEL	ISolar SMH 3KW	ISolar SPH 3KW
Rated Power	3000VA/2400W	
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	6000VA	
Efficiency(Peak)	93%	
Transfer Time	10ms (for personal computers) 20ms (for home appliances)	
Wave form	Pure Sine 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 or 30A	
Maximum Charging Current	70A	80A
Standby Power Consumption	2W	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	305*272*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 to 60°C	

ISolar SML III 3.5-5.5KW

MPPT Solar Inverter

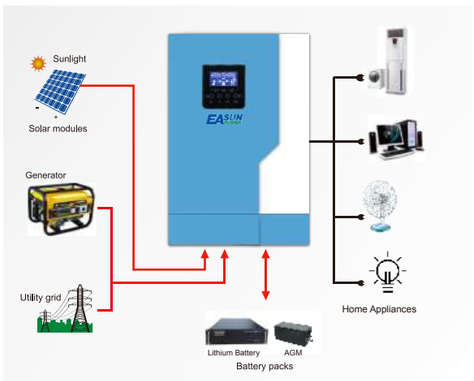
Features

- Pure sine wave inverter
- Output power factor 1.0
- Programmable supply priority for PV,Battery or Grid
- User-adjustable charge current and voltage
- Wide PV input range (120Vdc -500Vdc),110A MPPT SC
- Working without bateries in sunny day
- WiFi Monitoring Function (optional)
- Anti-Dust kit or harsh environmennt(optional)
- LCD remote control with 10 meters wire(optional)
- PV and electricity complementary
- Use with lithium Batteries

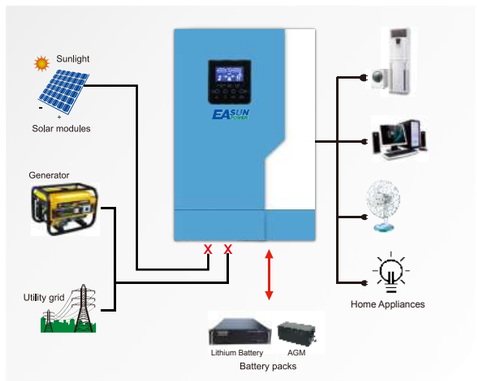
System Diagram

Operation with battery connected

Solar Power and AC Power available

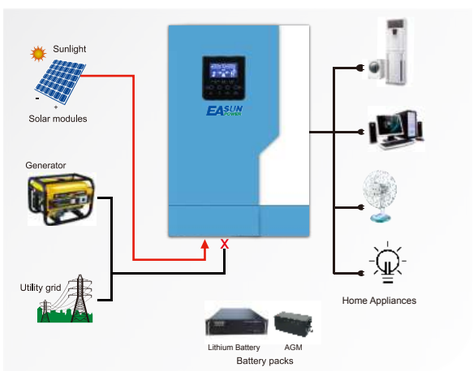


Solar Power and AC Power Available

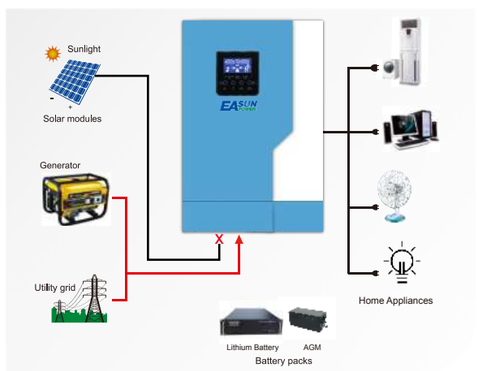


Operation without battery connected

Solar Power available



AC Power available



WiFi connection

ISolar SML III Solar Inverter

MODEL	ISolar-SML III-3500	ISolar-SML III-5500
Rated Power	3500VA/3500W	5500VA/5500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge Power	7000VA	11000VA
Efficiency(Peak) PV to INV	97%	
Efficiency(Peak) BAT to INV	94%	
Transfer Time	10ms (for personal computers) 20ms (for home appliances)	
Wave Form	Pure Sine Wave	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	31VDC	61VDC
Maximum Charge Current	80A	80A
SOLAR CHARGER		
MAX.PV Array Power	5000W	6000W
MPPT Range@ Operating Voltage	120-500VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	110A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	472*297*129	
Net Weight (kgs)	9.5kg	10.5kg
Communication Interface	RS485/RS232(Standard) LCD remote/WIFI(Optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

ISolar MLV -U Series

MPPT Solar Inverter

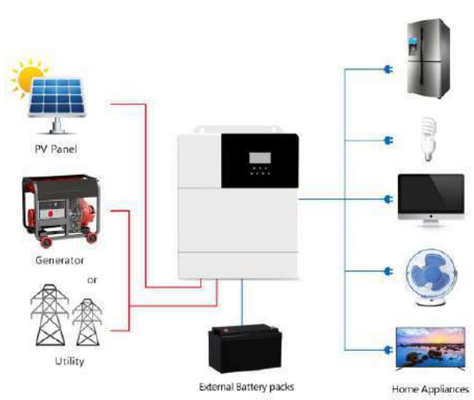
Features

- 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 forAC 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.

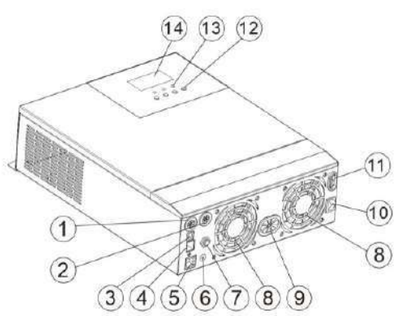
Introduction

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	⑧	Cooling fan
②	AC output port	⑨	Battery port
③	USB communication port	⑩	ON/OFF rocker switch
④	RS485/CAN communication port	⑪	PV port
⑤	Dry node port	⑫	Touch button
⑥	Grounding screw hole	⑬	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			
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		
Efficiency	>95%		
Conversion time (bypass and inverter)	10ms (typical)		
AC reverse protection	Available		
Maximum bypass overload current	40A	40A	63 A
Inverting mode			
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	Circuit breaker		
Specification of bypass breaker	40A		63A
Rated battery input voltage	24V (Minimum starting voltage 22V)	48V (Minimum 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	Lead 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	Circuit breaker and blown fuse		
Breaker specification	40A	40A	63A
Overcharge protection	Alarm and turn off charging after 1 minute		
PV Charging			
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	18-33VDC	40-60VDC	40-60Vdc
Maximum output power	1600W	4200W	5000W
Charge current range of solar energy (settable)	0-60A	0-80A	0-80A
Charge short-circuit protection	Blown fuse		
Wiring protection	Reverse polarity protection		
Authentication specification			
Specification authentication	CE(IEC/EN62109-1,-2)、ROHS2.0		
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	10	

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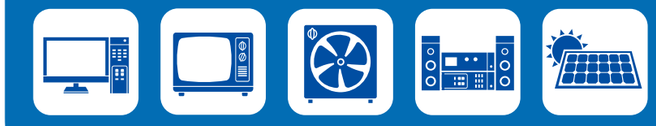
ISolar MLV -U Series

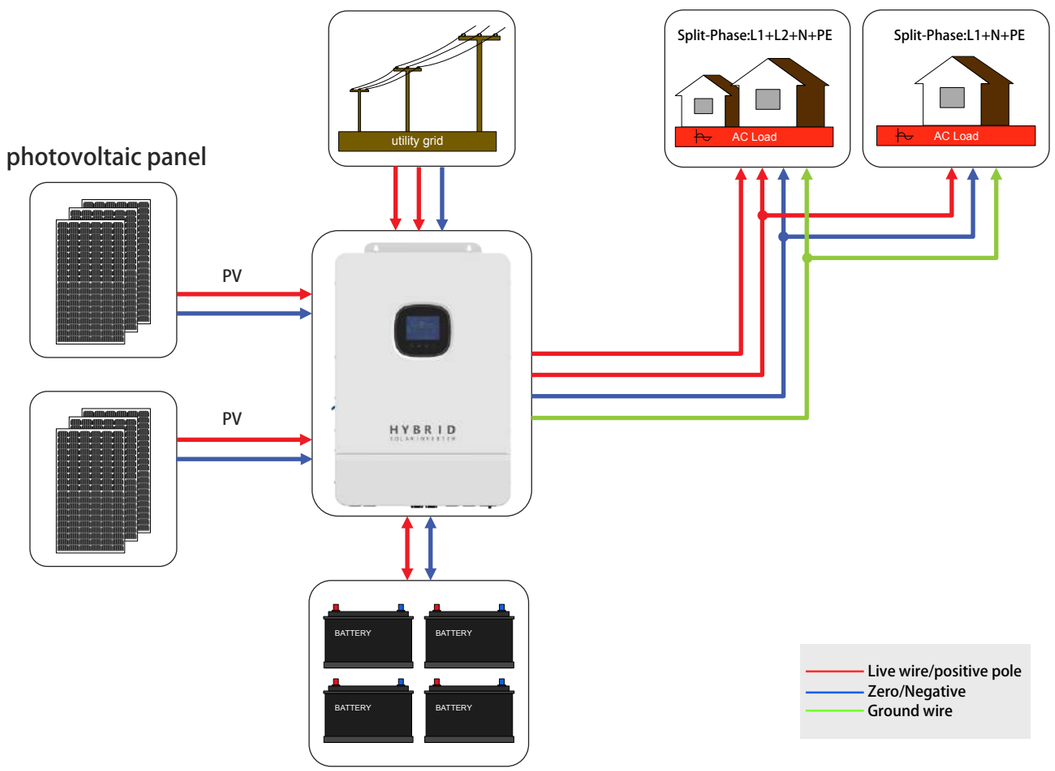
MPPT Solar Inverter



Features

- Supports lead acid battery and li-ion battery connections.
- With a dual activation function when the li-ion battery is dormant; either mains/photovoltaic power supply access can trigger the activation of the li-ion battery.
- Support split-phase and single-phase pure sine wave output
- Supports four different voltage levels of 100Vac, 105Vac, 110Vac, and 120Vac per phase.
- Supports two solar inputs and simultaneous tracking of two solar maximum power charging/carrying capacity functions.
- Dual MPPT with 99.9% efficiency and maximum 22A current in a single circuit, perfectly adapted to high power modules.
- 4 charging modes are available: solar only, mains priority, solar priority, and mixed mains/PV charging.
- With two output modes of utility bypass and inverter output, with uninterrupted power supply function.
- LCD large screen dynamic flow diagram design, easy to understand the system data and operation status.
- Support CAN, USB, and RS485 communication.

System Connection Diagram



ISolar MLV -U Solar inverter control machine

Model	Isolar MLV 8KW-U	Isolar MLV 10KW-U
Rated output power	8000W	10000W
Maximum peak power	16000W	20000W
Rated output voltage	120/240Vac (L1/L2/N/PE split phase)	
Load bearing motor capacity	5HP	6HP
Rated frequency	50/60Hz	
Output waveform	pure sine wave	
switching time	10ms (typical value)	
Parallel connection	/	
battery		
Battery Type	Lead Acid Battery / Lithium Ion Battery / User Defined	
Rated battery voltage	48Vdc	
voltage range	40～60Vdc	
Max Photovoltaic Charging Current	200A	
Maximum mains	100A	120A
Max Hybrid Charge Current	180A	200A
Photovoltaic input		
Number of MPPT channels	2	
Maximum input power	11000W	
Maximum input current	22/22A	
Max open circuit voltage	500VDC	
MPPT working voltage range	125-425VDC	
Mains/generator input		
Input voltage range	90-140VDC	
Input frequency range	50/60HZ	
bypass overload current	63A	
efficiency		
MPPT Tracking Efficiency	99.90%	
Battery inverter efficiency	92%	
Basic parameters		
size	620*435*130mm	
weight	20kg	21kg
Degree of protection	IP20,indoor use	
ambient temperature	-10~55℃, >45℃ derating operation	
humidity range	-25°C ~ 60°C	
cooling method	Smart air cooling	
Warranty time	2 years	
communication		
built-in interface	RS485/CAN/USB/dry contact	
External module (optional)	Wi-Fi / GPRS	
certified		
Safety	IEC62109-1, IEC62109-2,UL1741	
RoHs	have	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	

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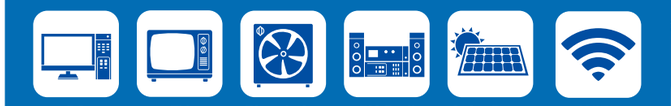
ISolar SM IV 3.6KW 5.6KW

MPPT Solar Inverter



Features

- Pure sine wave MPPT solar inverter
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Wide DC input range
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Battery independent function
- Parallel operation with up to 9 units

System Diagram for Optional

Operation with battery connected

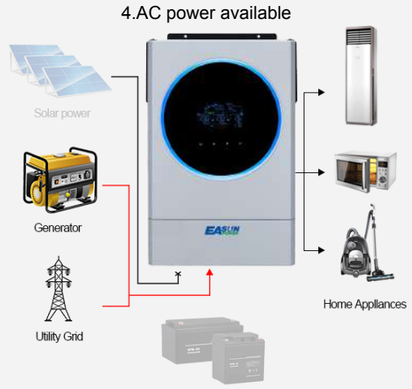
1.Solar power and ac power availabel

2.Solar power and ac power not available

Operation without battery connected

3.Solar pwer available

4.AC power available



Parallel operation

ISolar SM-IV Off-Grid Inverter Selection Guide

MODEL	ISolar SM IV 3600-48	ISolar SM IV 5600-48
Rated Power	3600VA/3600W	5600VA/5600W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	55 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%	
Overload capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load	
Efficiency (Peak)	93 %	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	66 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	5000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	
Maximum PV Array Open Circuit Voltage	450 VDC	
Maxmum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	11.0	12.0
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact	
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 notice.

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ISolar SMH 2.2-3.2KW

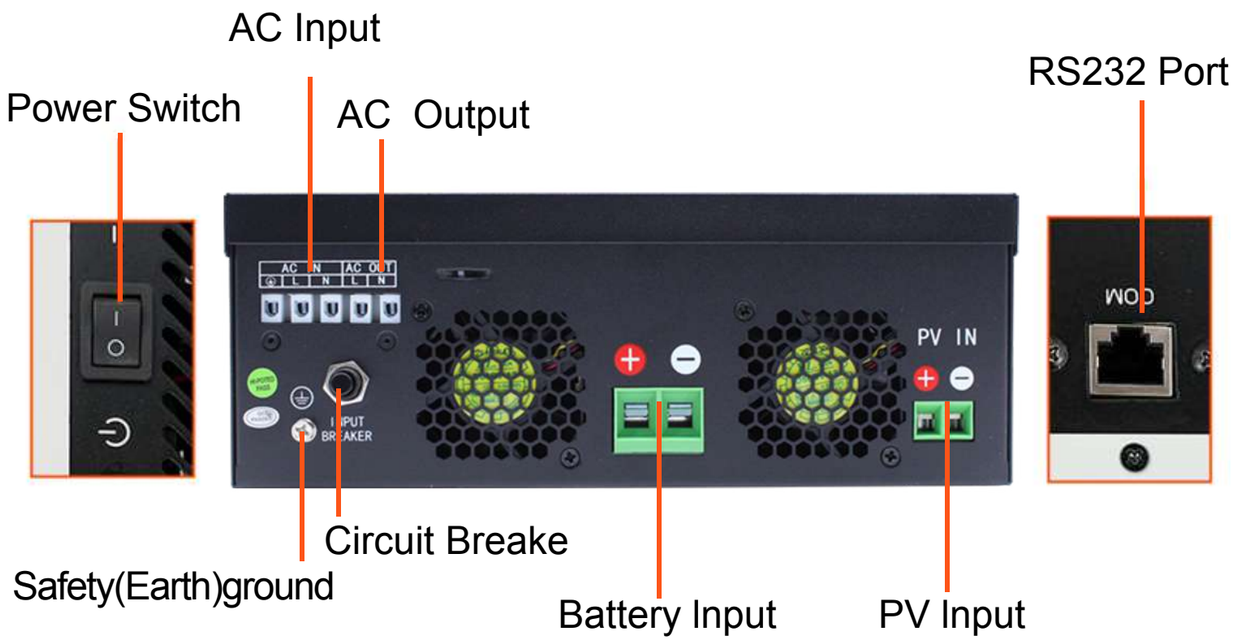
MPPT Solar Inverter

Features

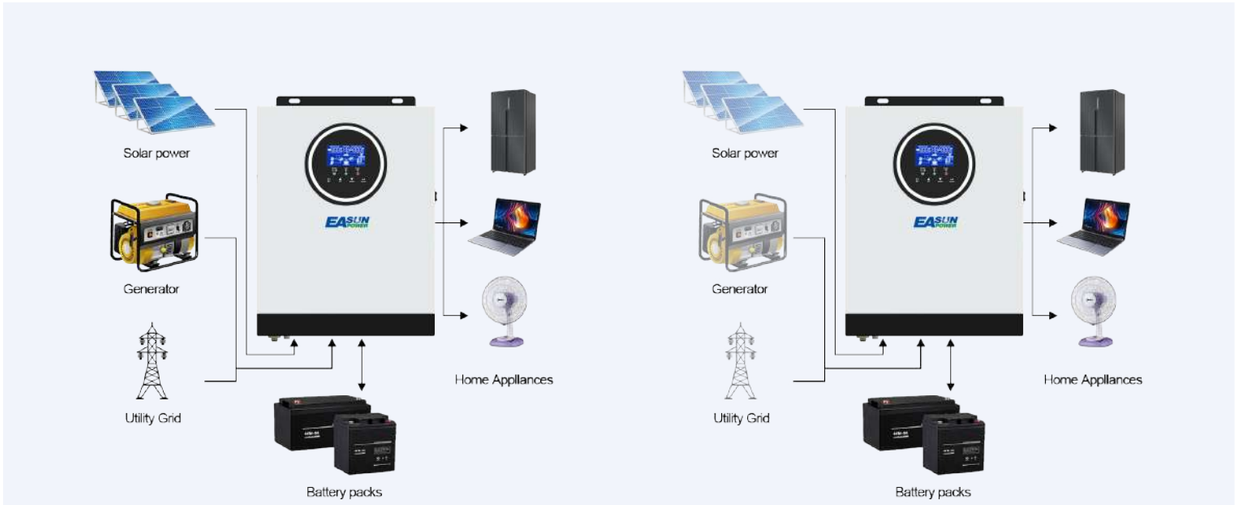
- Pure sine wave inverter
- WIFI&GPRS available for IOS and android
- Built-in 80A MPPT solar charge
- Built-in anti-dusk kit for harsh enviromen(optional)
- Compatibe with lithium-ion battery
- High PV input voltage range(90~450VDC)
- Smart battery charge design to optimize battery life
- Overload,high temperature,inverter output short circuit protection
- Cold start function
- Intelligent fan speed adjustment

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

Product Overview



System Diagram for Optional

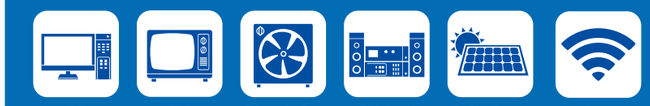


ISolar inverter Technical parameters

MODEL	Isolar SMH 2.2KW	Isolar SMH 3.2KW
Rated Power	2200VA/1800W	3200VA/3000W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	4400VA	6400VA
Transfer Time	10ms (for personal computers) 20ms (for home appliances)	
Wave form	Pure Sine Wave	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	15.5VDC	31VDC
Maximum charge current	60A	
SOLAR CHARGER		
MAX.PV Array Power	2000W	3000W
MPPT Range@ Operating Voltage	90-450VDC	
Maximum PV Array Open Circuit Voltage	450VDC	
Maximum Charging Current	80A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	348*282*105mm	
Net Weight (kgs)	5.0kg	5.5kg
Communication Interface	RS232(Standard) GPRS/WIFI(Optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 55°C	
Storage Temperature	-15°C to 60°C	

IGrid SMP 5KW 48V

Hybrid Solar Inverter



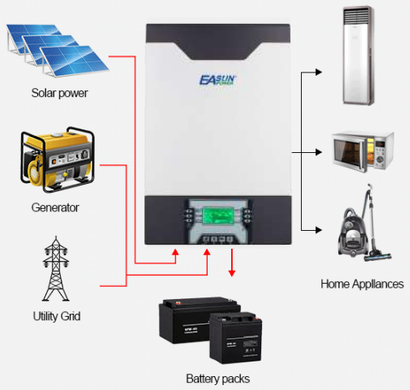
Features

- 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 (RequiresAPP)
- Compatible with (Li-ion,LiFePo4 and etc.)
  batteries with BMS
- Battery Equalization

System Diagram for Optional

Operation with battery connected

1.Solar power and ac power availabel

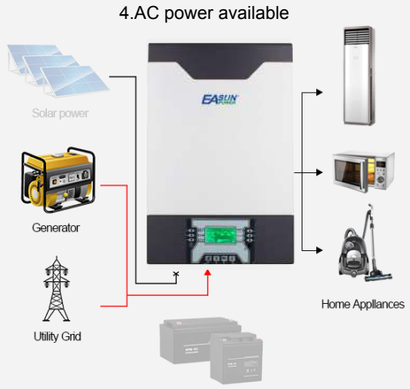


2.Solar power and ac power not available

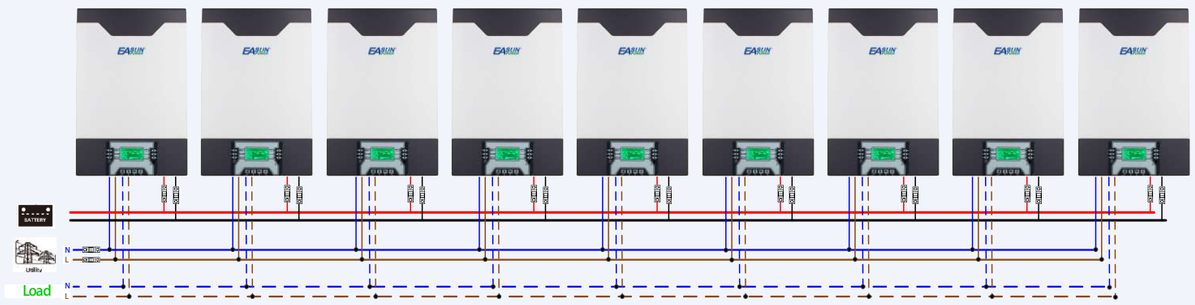
Operation without battery connected

3.Solar pwer available

4.AC power available



Parallel operation



IGrid SMP 5KW Technical parameters

MODEL	IGrid 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 Volta	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)
Operation Temperature	-10 to 50°C
Storage Temperature	-15 to 60°C

*Product specifications are subject to change without further notice

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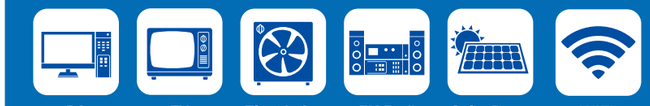
ISolar SMV IV 3.6KW 5.6KW

MPPT Solar Inverter



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

Features

- 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

System Diagram for Optional

Operation with battery connected

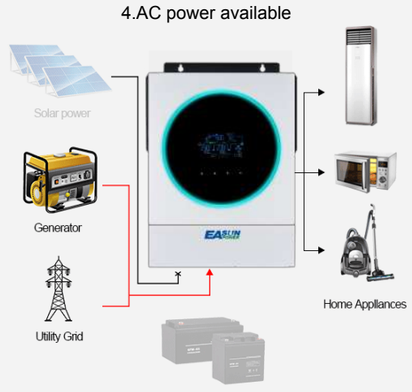
1.Solar power and ac power availabel

2.Solar power and ac power not available

Operation without battery connected

3.Solar pwer available

4.AC power available



ISolar SMV-IV Off-Grid Inverter Selection Guide

MODEL	ISolar SMV IV 3600-24	ISolar SMV IV 5600-48
Rated Power	3600VA/3600W	5600VA/5600W
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)	230 VAC ± 5%	
Surge Power	7200VA	11200VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine 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	MPPT
Maximum PV Array Power	4000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maxmum Solar Charge Current	120 A	120 A
Maximum AC Charge Current	100 A	100 A
Maximum Charge Current	120 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	115 x 300 x 400	
Net Weight (kgs)	9.0	10.0
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 notice.

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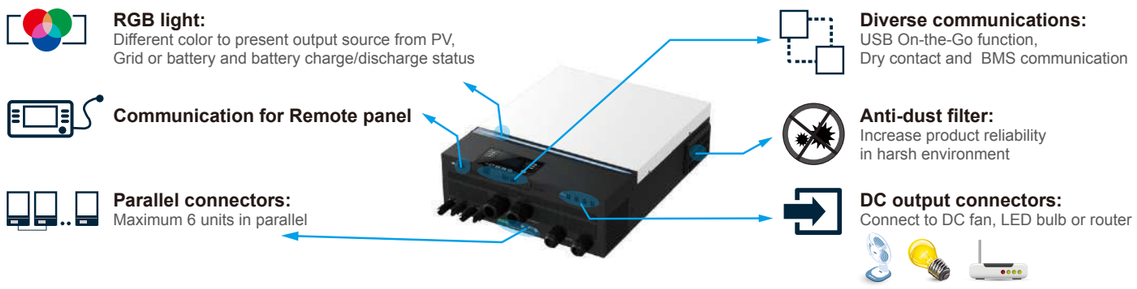
ISolar SMW 8KW 11KW

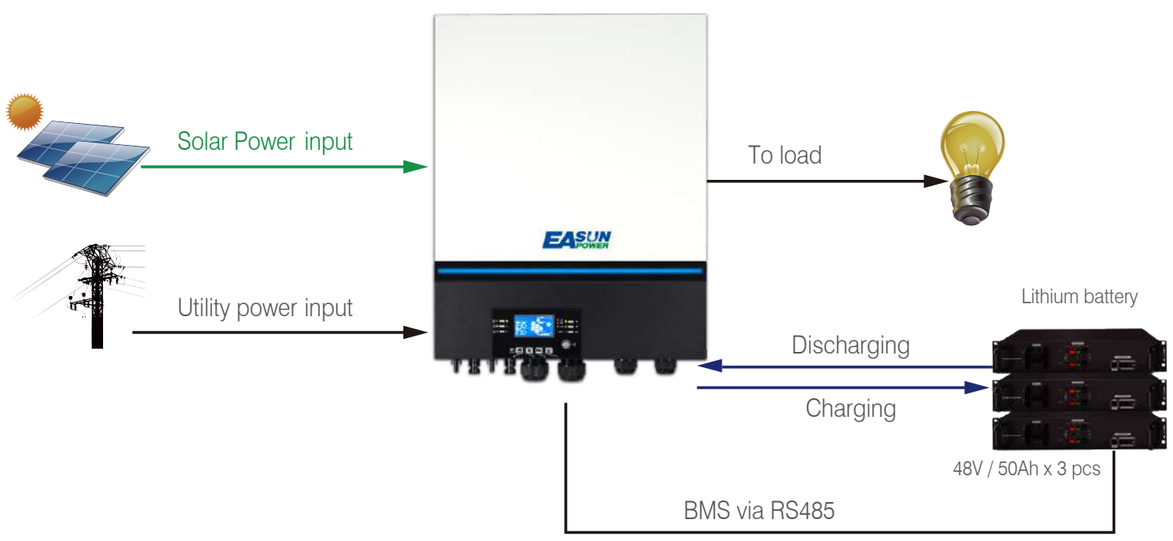
MPPT Solar Inverter

Features

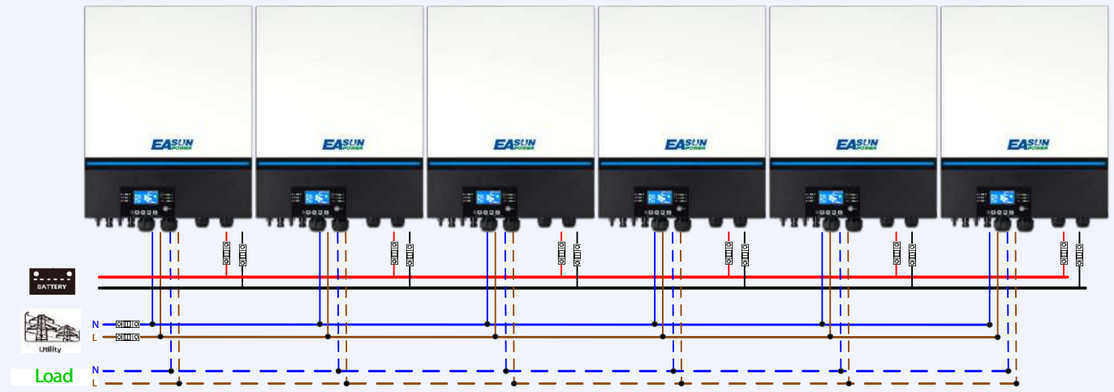
- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring(Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for 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
- Parallel operation with 6 units



System Diagram



Parallel operation



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	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%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)	
Waveform	Pure sine 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	MPPT	
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(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 432.5 x 553.6	
Net Weight (kgs)	18.4	
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.

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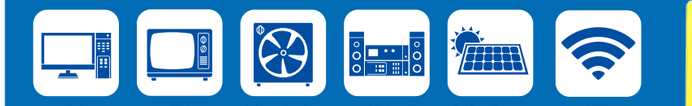
IGrid SV IV 3.6KW 5.6KW

Hybrid Solar Inverter



Features

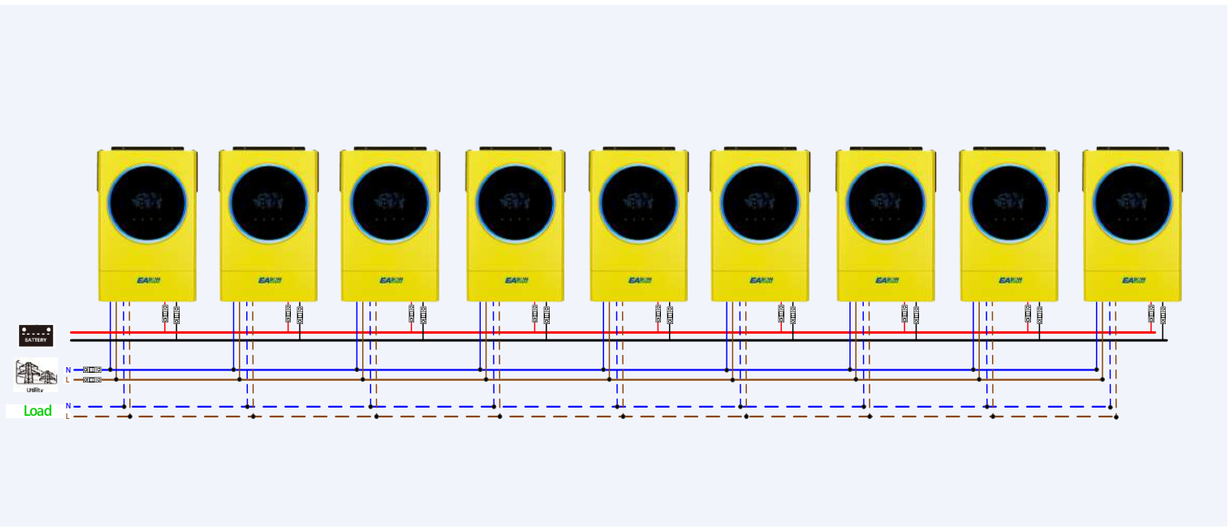
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- 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

System Diagram for Optional

Operation with battery connected

Operation without battery connected

Parallel operation



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 ~ 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 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	15.6A	24.3A
Power Factor	> 0.9	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	96%	96%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	40 A	40 A
PV INPUT (DC)		
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 / 27 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sinewave	
Efficiency (DC to AC)	93%	93%
HYBRID 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 ~ 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 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	15.6A	24.3A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 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
INTERACE		
Parallel Function	Yes, 9 units	
Communication Port	USB/RS232/RS485/Wifi/Dry-contact	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	-10 to 50ºC	

Product specifications are subject to change without further notice.

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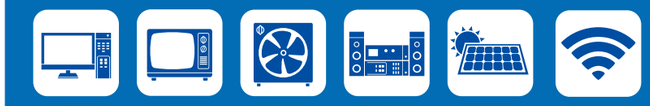
Advancing power

IGrid TT 10KW

Hybrid Solar Inverter



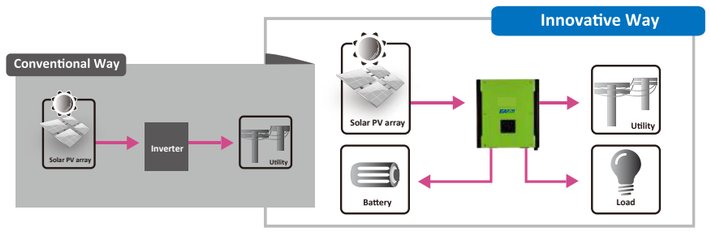
IGrid is a flexible and intelligent hybrid inverter which utilizes solar power, AC utility, and battery power source to supply continuous power. It's a simple and smart solar power storage system for home users to either store energy into a battery for night-time usage or use for self-consumption first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

Features

- 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 operations 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
- Custom-made firmware by ODM contract
- Parallel operation up to 6 units

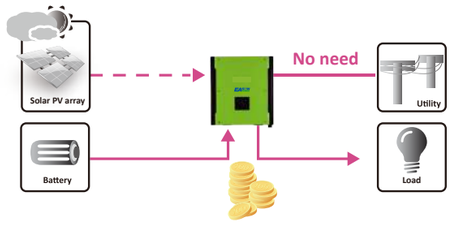
Feed-in is not only choice

In comparison with conventional grid-tie inverter, InfiniSolar can 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.



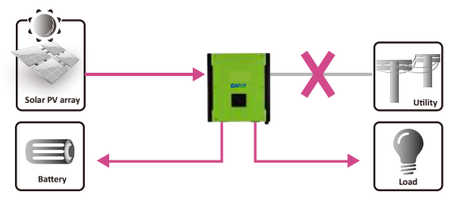
Save money by discharging battery for self-consumption first

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



Power backup when AC failed

InfiniSolar 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 for camping or night market.



IGrid TT 10K : On-grid Inverter with Energy Storage Selection Guide

MODEL	IGrid TT 10KW
PHASE	3-phase in / 3-phase out
MAXIMUM PV INPUT POWER	14850 W
RATED OUTPUT POWER	10000 W
MAXIMUM CHARGING POWER	9600 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265VAC* per phase
Nominal Output Current	14.5A per phase
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers/Maximum Input Current	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers/Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC* per phase
Nominal Output Current	14.5 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 10A - 200A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	167.2 x 500 x 622
Net Weight (kgs)	40
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-Condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m**

*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.

CE VDE-AR-N 4105
VDE 0126-1-1

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ICharger-MPJ-MPPT-30A

MPPT Solar Charge Controller

Max charging current 30A

Radiating mode Fan cooling

Multi protection

Battery smart charge design

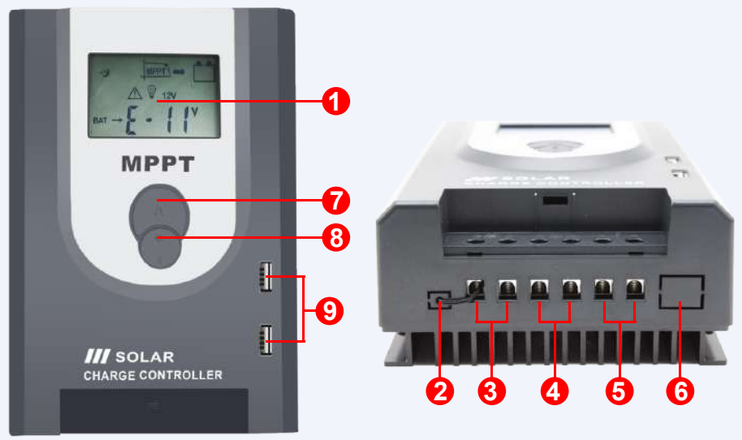
Battery DC voltage 12V/24V Auto

Features

- MPPT solar charge controller
- 12/24V automatic voltage identification
- Wide PV array maximum power point operating voltage range.
- Various load control modes: general mode, light control mode
- Use the Rs485 methods to maximize the communication needs of different occasions.
- Seal, GEL, Flooded, LifePO4 and Li(NiCoMn)02 battery types are available.

System connection diagram

Product overview



①	LCD screen
②	Temperature sensor interface
③	Photovoltaic array terminals
④	Battery terminals
⑤	Load terminals
⑥	RJ45 communication interface
⑦	Button
⑧	Button
⑨	USB OUTPUT

Product parameters

Model	ICharger-MPJ-MPPT-30A
Input	
Maximum PV open circuit voltage	100V(atthelowest temperature) 92V(ata standard temperature of25)
Minimum PV voltage	20V/40V/60V/80V
Rated Charge Current	30A
PVmaximuminput power	12V 520W;24V 1040W
Output	
System voltage	12V/24V Auto
Rated Discharge Current	40A
Own consumption	<50mA
MPPT hiqhest accuracy	99%
Maximum charging efficiency	97%
Charging controlmode	Multi-stage(MPPT,Absorption, Float,EqualizationCV)
Float charge	13.8V/27.6V
Absorption charge	14.4V/28.8V
Equalization charge	14.6V/29.2V
Load disconnection(LVD)	10.8V/21.6V
Load reconnection(LVR)	12.6V/25.2V
Load controlmode	Normal, light control, light and timing control, timing control, reverse light control
Light controlpoint voltage	5V/10V/15V/20V
Battery Type	GEL,SLD,FLD and USR(default),Lithium batteries customization 3series 3.7V4 series 3.7V,4series 3.2V,5series 3.2V
Other	
Humaninterface	LCD with backlight,2 buttons
Cooling mode	ALalloy heatsink
Wiring	High current copper terminal<16 mm2(3AWG)
Temperature probe	built-in
Communication mode	RS485RJ45port/
Working temperature range	-20~+55°C
Storage temperature range	-30~+80C
Humidity	10%~90%No condensation/

ICharger-MPPT-20/30/40A

MPPT Solar Charge Controller

Max charging current 20/30/40A

Radiating mode Fan cooling

Multi protection

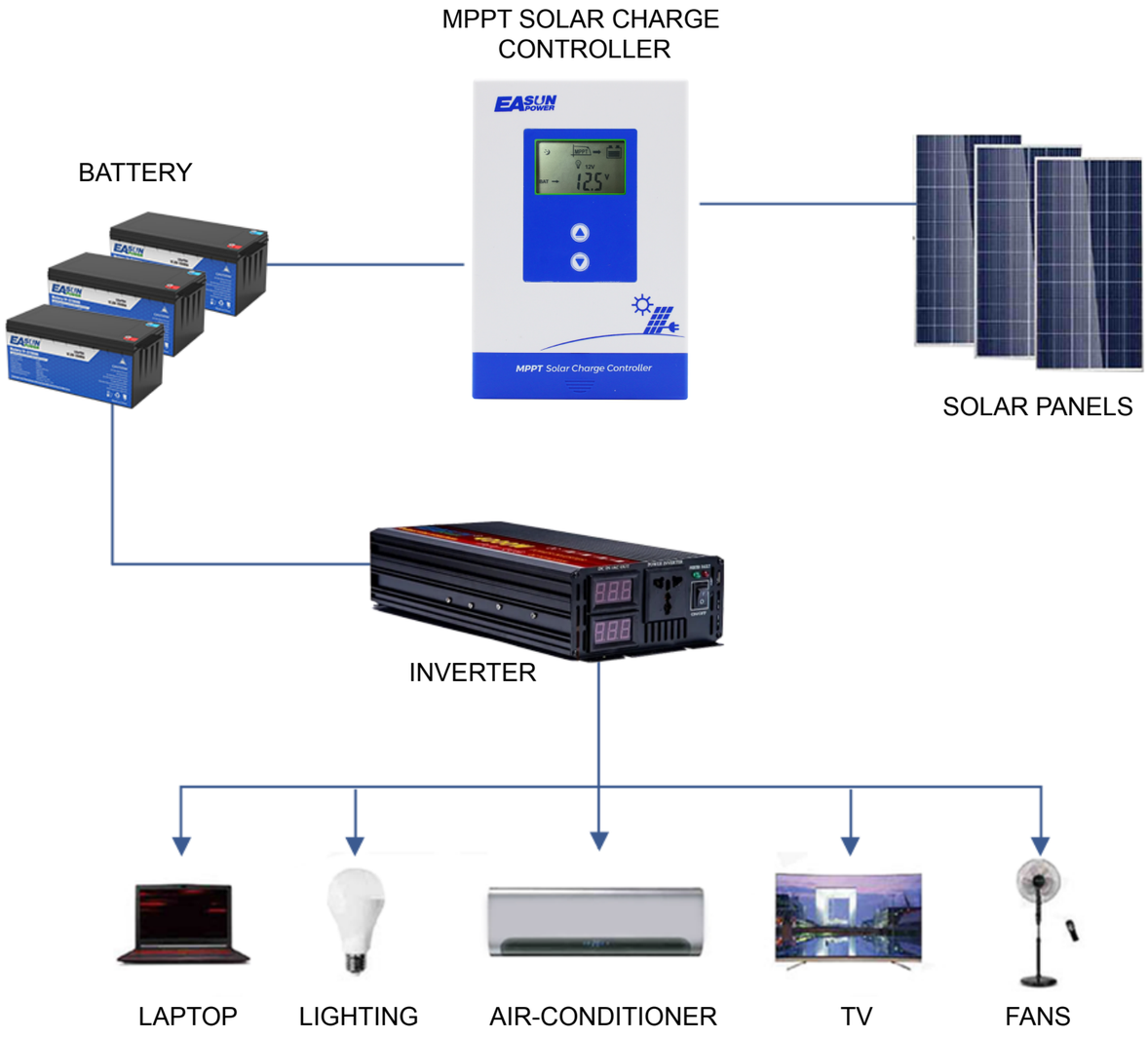
Battery smart charge design

Battery DC voltage 12V/24V Auto

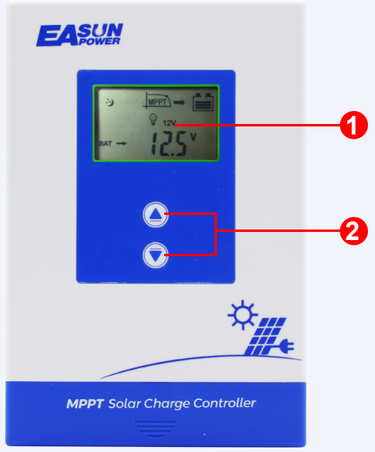
Features

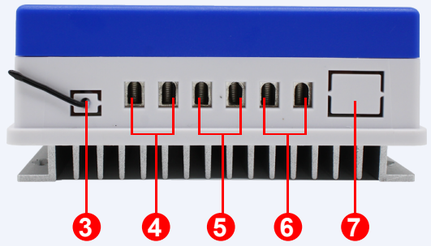
- MPPT solar charge controller
- 12/24V automatic voltage identification
- Wide PV array maximum power point operating voltage range.
- Various load control modes: general mode, light control mode
- The LCD is designed to dynamically display the operation data and working status of the equipment.
- Seal, GEL, Flooded, LifePO4 and Li(NiCoMn)02 battery types are available.

System connection diagram



Product overview





1.LCD screen
2.Action button
3.Temperature sensor interface
4.Photovoltaic array terminals
5.Battery terminals
6.Load terminals
7.RJ45 communication interface

Product parameters

Model	Icharger-MPPT-2420	Icharger-MPPT-2430	Icharger-MPPT-2440
Rated charge current	20A	30A	40A
Input			
Max open voltage ofsolar panel	<60V	<75V	<100V
System rated voltage	12/24V Auto recognized		
Maximum batteryvoltage	8V-32V		
Maximuminput power	260W(12V)520W(24V)	390W(12V)780W(24V)	520W(12V)1040W(24V)
Output			
Rated Discharge Current	20A	20A	30A
Battery type	User default, Sealed, Flooded, GEL, LiFePO4, Li(NiCoMn)O2.		
Equalized charging voltage	Maintenance-free lead-acid battery :14.6VGEL:No;Lead-acid Flooded battery:14.8V Duration: 2hours		
Absorption charging voltage	Maintenance-free lead-acid battery :14.4VGEL:14.2V;Lead-acid Flooded battery: 14.6V Duration: 2hours		
Float charging voltage	Maintenancefree lead-acid battery, GELlead-acid Flooded battery :13.8V		
LVR	Maintenance-free lead-acid battery, GEL,lead-acid Flooded battery :12.6V		
LVD	Maintenance-freelead-acid battery, GEL,lead-acid Flooded battery :10.8V		
Static loss	<50mA		
HVD	Lead acid battery 16V		
Light control voltage	5V/10V		
Temperature compensation coefficient	-4mV/C/2V(25C)		
Discharge loop voltagedrop	⩽0.2V		
LCD temperature	-20°C~+70°C		
Operating temperature	-20°C~+55°C		
Storage temperature	-30-+80°C		
Working humidity	<90%No condensation		
Protection class	IP30		
Grounded type	Positive grounded		
Aperture for installation	Φ5mm		

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ICharger-MPK-MPPT-60A

MPPT Solar Charge Controller

Max charging current 60A

Radiating mode Fan cooling

Multi protection

Battery smart charge design

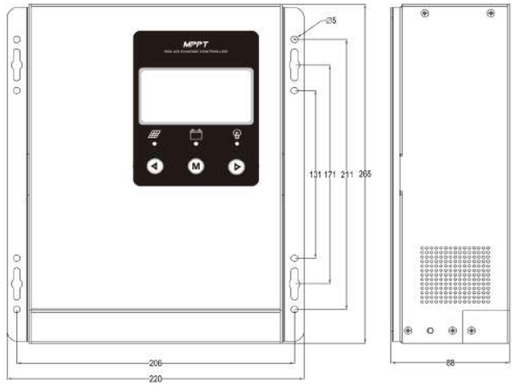
Battery DC voltage 12/24/36/48V Auto

Overview

MPK solar charge controller is Multi-stage Maximum Power Point Tracking (MPPT) photovoltaic battery charge controller with our own technology. It's main topology adopts in Buck conversion circuit, and uses MCU to adjust the solar panels working point intelligently in order to make the solar panels output is maximum power. When the circumstances change, the working point of solar panels deviate from the maximum power point, MCU will adjust the solar panels working point based on MPPT calculation to make the solar panels back to the maximum power point again. Compared with PWM controller, MPPT can increase the output power of solar panels by 5%-30%. The output power increasing proportion is affected by the factors such as solar panel property, humidity and light intensity. The controller uses wall-mount installing.Connecting terminal makes the wiring area bigger and wiring lossless.

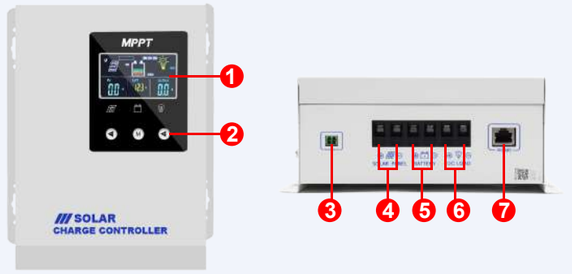
System connection diagram

Dimensions(mm):



Mounting hole pitch: 131mm*206mm
Mounting hole pitch: 171mm*206mm
Mounting hole pitch: 211mm*206mm
Mounting hole diameter: Φ5mm
Length*Width*Thickness: 265mm*220mm*88mm
Connecting terminals: Maximum 16mm²

Product overview



1.LCD Display Screen
2.Button
3.Temperature sensor
4.Solar panel terminalt
5.Battery terminal
6.Load terminal
7.RS485 Communication port

Parallel operation

Product parameters

Model	ICharger-MPK-MPPT-60A
Input	
Maximum PV opencircuit voltage	150V (at the lowest temperature)138V (at a standard temperature of 25°)
Minimum PV voltage	Battery current voltage +2V
Rated Charge Current	60A
Output	
System voltage	12V/24V136V148V Auto
Rated Discharge Current	30A
Own consumption	s35mA(48V)
MPPT highest accuracy	99%
Maximum charging efficiency	97%
Charging control mode	Multi-stage(MPPT, Absorption, Float,Equalization,CV)
Float charge	13.8V/27.6V/41.4V/55.2V
Absorption charge	14.4V/28.8V/43.2V/57.6V
Equalization charge	14.6V/29.2V/43.8V/58.4V
Load disconnection(LVD)	10.8V/21.6V/32.4V/43.2V
Load reconnection(LVR)	12.6V/25.2V/37.8V/50.4V
Load control mode	Normal, light control, light and timing control,
Light control point voltage	5V/10V/15V/20V
Battery Type	GEL, SLD,FLD and USR(default),Lithium batteries customization
Other	
Human interface	Color LCD with backlight, 3 buttons
Cooling mode	AL alloy heat sink and cooling fan
Wiring	High current copper terminals25 mm2 (3AWG)
Temperature probe	10K, line length 3 meters
Communication mode	RS485,RJ45 port
Working temperature range	-20~+55"C
Storage temperature range	-30~+80°C
Humidity	10%~90% No condendation
Size	268*220*95mm
Net Weight	3500g

ICharger MPPT 30-100A

MPPT Solar Charge Controller

Max charging current 30-100A

Radiating mode Fan cooling

Multi protection

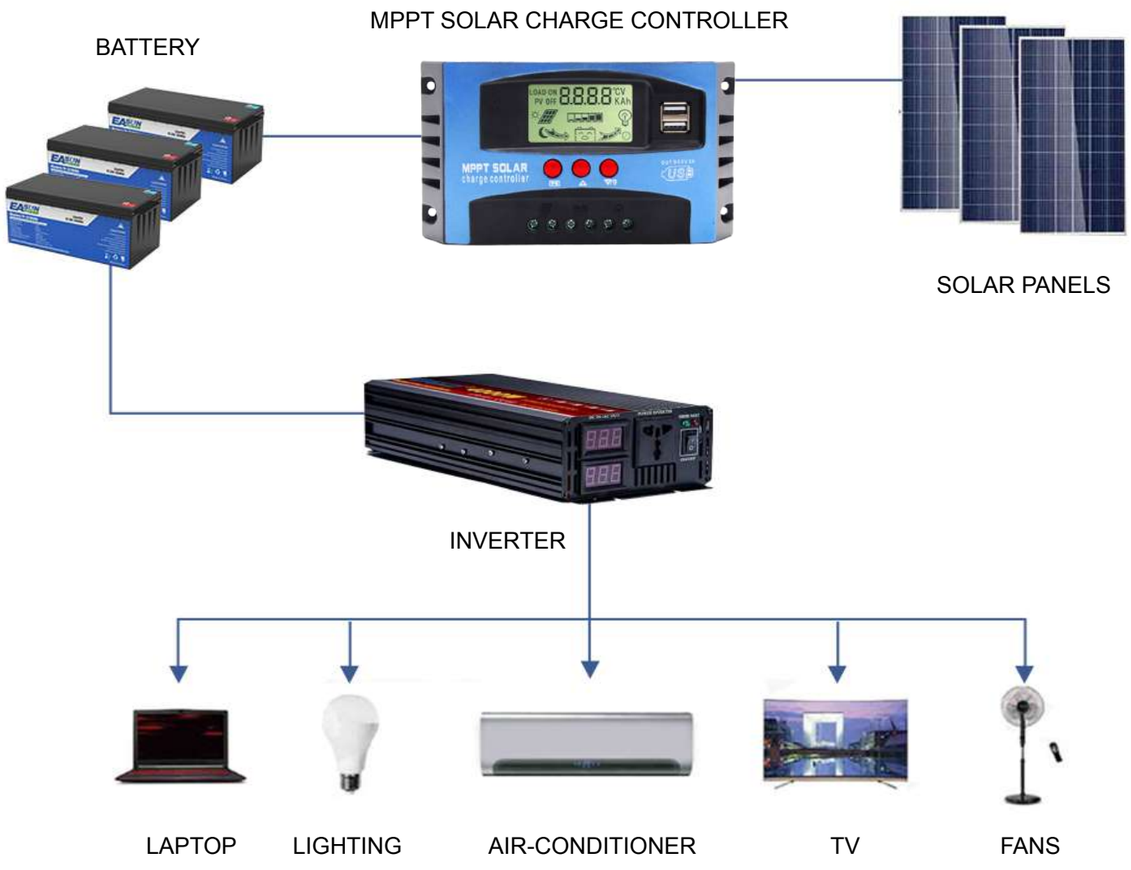
Battery smart charge design

Battery DC voltage 2V 24V Auto

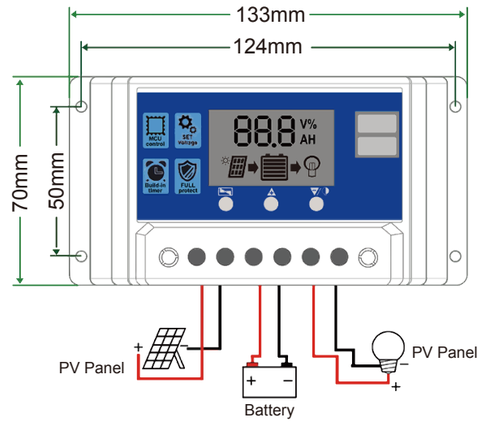
Features

- Build-in industrial micro controller.
- Large-screen LCD display, charging and discharging current display,cumulative power generation and discharge power query, temperaturedisplay, light control + delay control; adjustable charge and dischargeparameters, with power-off memory and other functions.
- Dual USB output, the maximum current of 2.5A, to support Apple'smobile phone charging.
- Fully 3-stage charge management.
- Build-in short-circuit protection,open-circuit protection,reverse protection,over-load protection
- Reverse current protection,low heat production.

System connection diagram



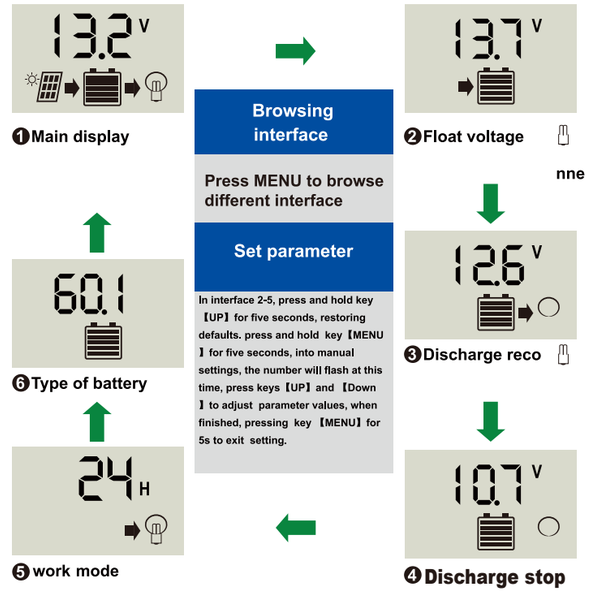
System Connection



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

The reverse step applies when uninstalling!
An incorrect sequence step can damage the controller!

LCD Display/Setting



Parameter Details

MODEL	MPPT 30A	MPPT 40A	MPPT 50A	MPPT 60A	MPPT 100A
Battery Voltage	12V 24V Auto				
Charging Current	30A	40A	50A	60A	100A
Discharging Current	10A	10A	10A	20A	20A
Max Solar input	12Vbattery, the highest 23V;24V battery when the highest 46V				
Equalization	14.4V				
Float charge	13.7V(defaul,adjustable)				
Discharge stop	10.7V(defaul,adjustable)				
Discharge reconnect	12.6V(defaul,adjustable)				
Charge reconnect	13V				
Voltage of open light	Solar Panel 8V(Light lights delay)				
Voltage of close light	Solar Panel 8V(Light off delay)				
USB output	2 way USB output，5V/2.5A(MAX)				
Self-consume	<10mA				
Operating temperature	-35°C~+60°C				
Size	170*92*45mm /450g				

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ICharger MPPT 60A 80A 100A

MPPT Solar Charge Controller

Max charging current 60/80/100A

Radiating mode Fan cooling

Multi protection

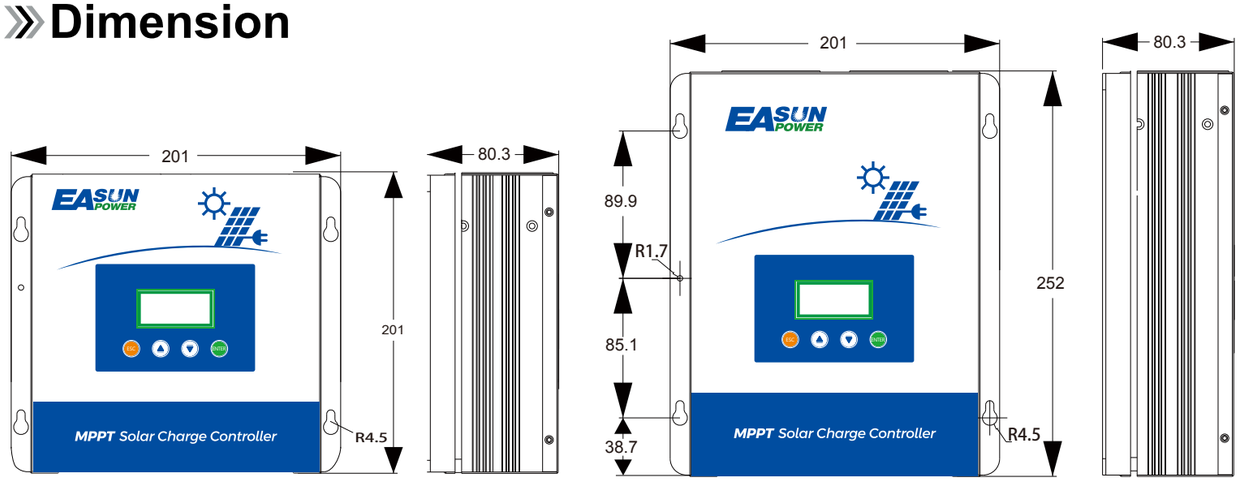
Battery smart charge design

Battery DC voltage 12/24/36/48/Auto

MPPT 60A MPPT 80A MPPT 100A

Application Diagram

Dimension



MPPT 60A MPPT 80A 100A

Features

- MPPT solar charge controller
- 12/24/36/48 V battery system auto recognition
- 150Voc max PV input voltage
- 60A/80A/100A max charge current
- 3.2KW/4.8KW/6KW max PV input power
- RS485 port for Modbus communication
- Lead-acid AGM/GEL/Flooded & Lithium batteries supportable
- Cooling fans 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

Introduction

ICharger MPPT 4860/8048/10048 is a solar controller with advanced Maximum Power Point Tracking (MPPT) technology, mainly used in small & medium size solar system, up to 3.2/4.8/6KW. It has a full range of protection functions, such as battery overcharge protection, battery high temperature protection, battery low temperature protection, battery reverse polarity protection, overcurrent protection, controller over temperature protection, PV reverse polarity protection.

Parallel operation

Models	ICharger MPPT 4860	ICharger MPPT 8048	ICharger MPPT 10048
Charging mode	3-stage: constant current(MPPT), constant voltage, floating		
System Voltage	12/24/36/48/Auto		
Max PV Input Power	900W/12V; 1800W/24V 2600W/36V; 3200W/48V	1200W/12V; 2400W/24V 3600W/36V; 4800W/48V	1500W/12V; 3000W/24V 4500W/36V; 6000W/48V
Max PV Input Voltage		150 Voc	
Battery voltage automatic recognition	12V System(DC8.7V-DC15.5V); 24V System(DC16V-DC31V); 36V System(DC33V -DC41V); 48V System(DC42V-DC64V)		
Overcharging protection voltage	12V System(16V); 24V System(32V); 36V System(48V); 48V System(64V)		
Limited current protection	80A		
Max efficiency	⩾98.1%		
PV utilization	⩾99%		
Protection Function			
Temperature protection	80℃		
Fan-on temperature	>45℃		
Fan-off temperature	<40℃		
Properties			
Size (mm)	201*201*80.3	252*201*80.3	
Net weight(Kg)	1.72	2.28	2.49
Electromagnetic compatibility	Accord to EN61000, EN55022, EN55024		
Enclosure	IP21		
Environmental temperature	-20℃ ~ +55℃		
Storage temperature	-40℃ ~ +75℃		

EASUN POWER
Advancing power

ICharger MPPT 4880 80A

MPPT Solar Charge Controller

Max charging current 60A

Radiating mode Fan cooling

Multi protection

Battery smart charge design

Battery DC voltage 12V\24V\48VDC (Auto detection); 36V (Setting)

Features

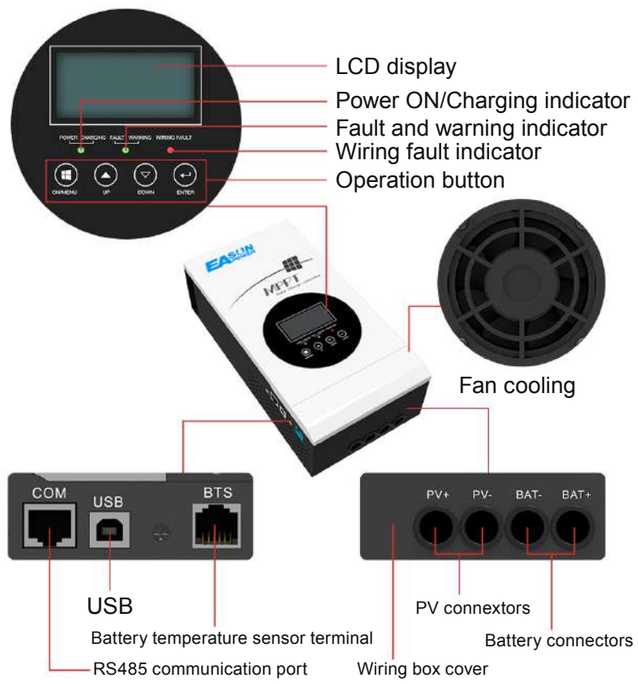
- LCD display , easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- BTS - Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array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

Parallel operation

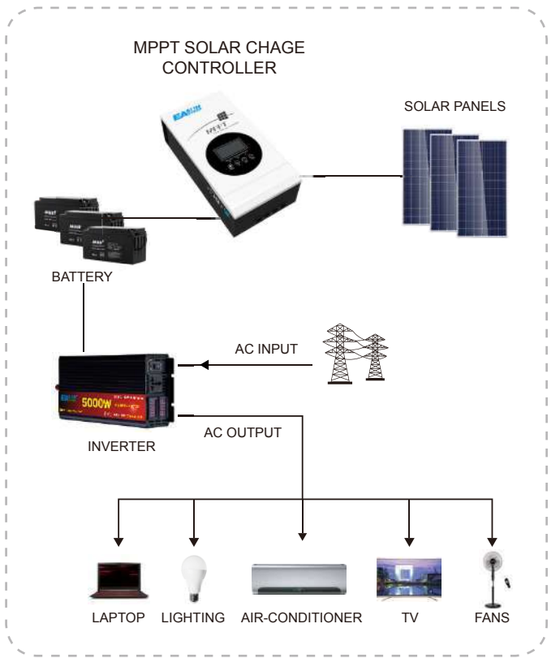
Introduction

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



Solar system connection



Parallel operation

Model	ICharger MPPT-4880					
Nominal Battery System Voltage	12V\24V\48VDC (Auto detection); 36V (Setting)					
CONTROLLER INPUT	Battery Voltage	12V	24V	36V	48V	48V
	Maximum Solar Input Voltage	100V	145V			
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	60~130V	
	Maximum Input Power	12 Volt-1250W 24 Volt-2500W 36 Volt-3750W 48 Volt-5000W				
BATTERY	Charging Set Points	Absorption Stage			Float Stage	
	Flooded Battery	14.2V \ 28.4V \ 42.6V \ 56.8V			13.7V \ 27.4V \ 41.1V \ 54.8V	
	AGM (Default)	14.4V \28.8V \43.2V \57.6V			13.7V \ 27.4V \ 41.1V \ 54.8V	
	Over-charging Voltage	15.5V \ 30.0V \ 45.0V \ 60.0V				
	Over-charging Comeback Voltage	14.5V \ 29.5V \ 44.5V \ 59.0V				
	Battery Defect Voltage	10.0V \ 17.0V \ 25.5V \ 34.0V				
	Temperature Compensation Conefficient	-5mv \ ℃ \cell (25℃ vef)				
	Peak Conversion Efficiency	98% (MPPT Efficiency 99%)				
	Mximum Battery Current	80Amps				
	Max Charging Current	80amps continuous @ 40℃ ambient				
GENERAL SPECIFICATION	Radiating Mode	Fan cooling				
DISPLAY & PROTECTION	Protections	Solar high voltage disconnect				
MECHANICAL SPECIFICATIONS	Mounting	Wall mount				
	Machine Dimension (W*H*D)	152*85*294 mm (per pcs)				
	G.W (kg)	3kg/pcs				
	Package Dimension (W*H*D)	625*366*232 mm (4pcs / Carton)				
	Gross Weight (kg)	14kg				
OTHER	Environmental Rating	Indoor				
	Operation Temperature Range	-10~55℃				
	Ambient Humidity	0~90% relative humidity (non-condensing)				
	Altiude	≤3000m				

EASUN POWER
Advancing power

ICharger MPPT 6048 60A

MPPT Solar Charge Controller

Max charging current 60A

Radiating mode Fan cooling

Multi protection

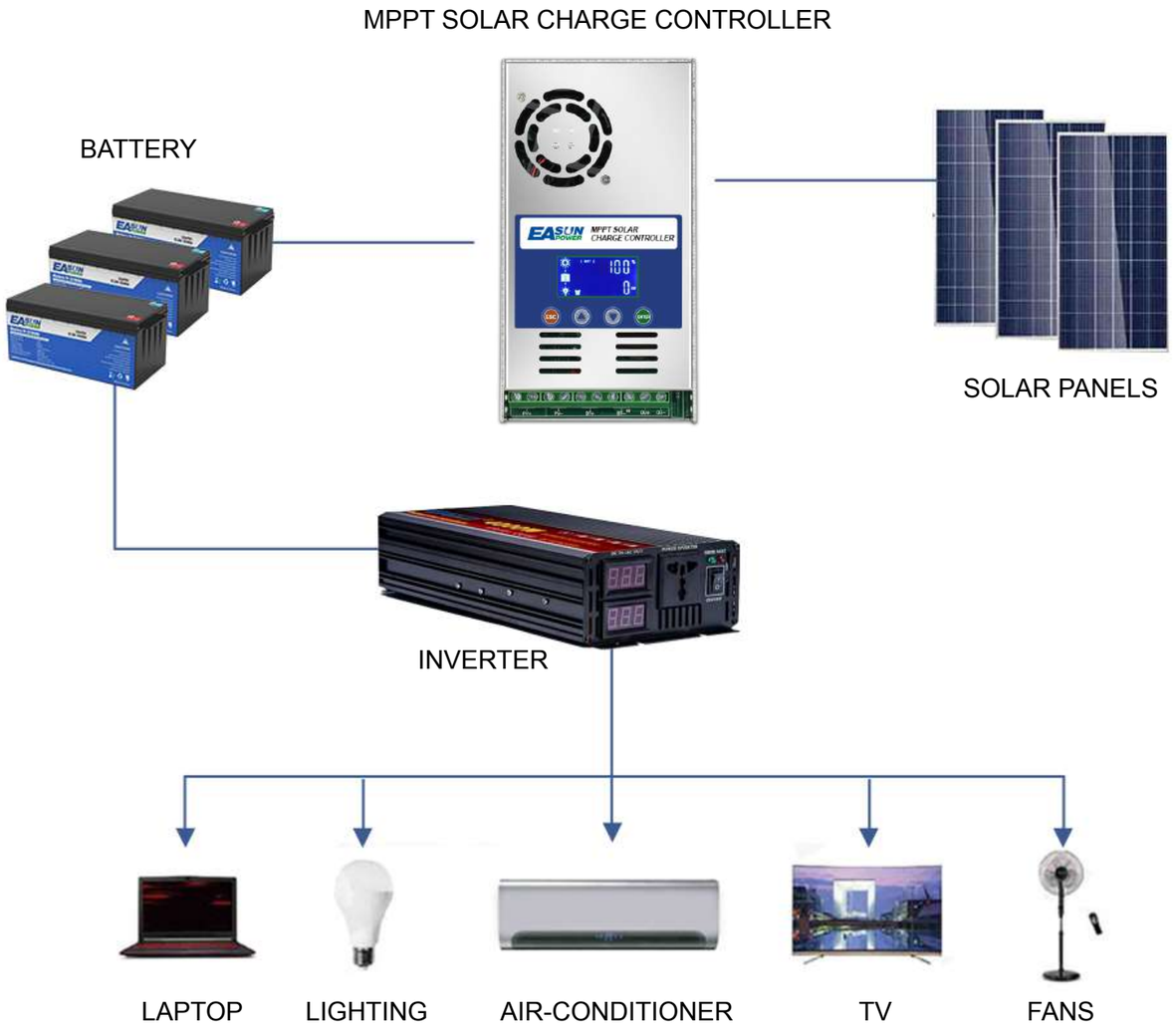
Battery smart charge design

Battery DC voltage 12V/24V/36V/48V Auto

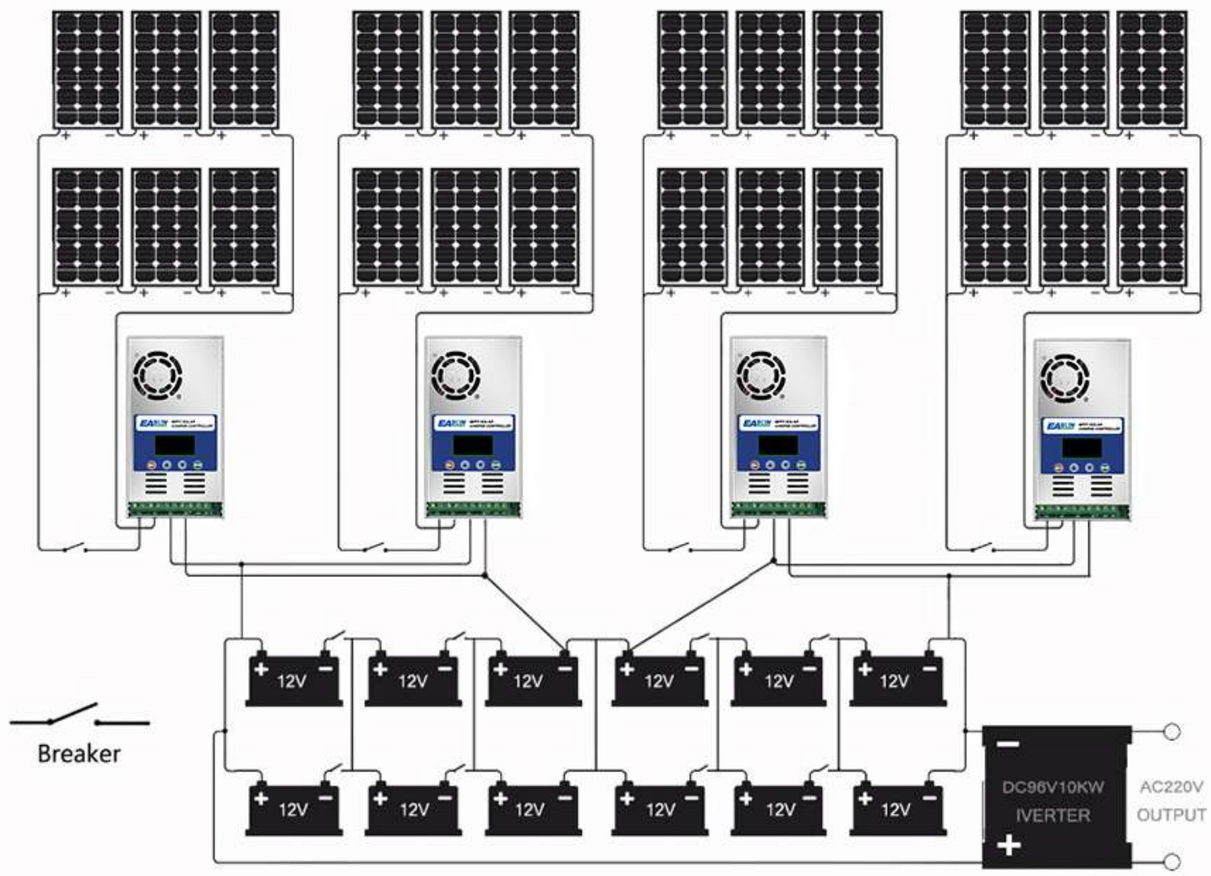
Features

- 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



Parallel operation



Parallel operation

Model	ICharger MPPT 6048
Charging mode	3-stage: constant current(MPPT), constant voltage, floating
System Voltage	12/24/36/48/Auto
Max PV Input Power	720W/12V; 1440W/24V; 2160W/36V; 2880W/48V
Max PV Input Voltage	180 Voc
Battery voltage automatic recognition: 48V Battery	DC40V~DC60V
Overcharging protection voltage: 48V Battery	60V
Limited current protection	61A
Max efficiency	⩾98.1%
PV utilization	⩾99%
Protection Function	
Temperature protection	75℃
Fan-on temperature	>45℃
Fan-off temperature	<40℃
Properties	
Size (mm)	214x115x50
Net weight(Kg)	1.1
Gross weight(Kg)	1.2
Electromagnetic compatibility	Accord to EN61000, EN55022, EN55024
Enclosure	IP21
Environmental temperature	-20℃ ~ +55℃
Storage temperature	-40℃ ~ +75℃

ICharger PWM 10-60A

PWM Solar Charge Controller

Max charging current 10-60A

Radiating mode Fan cooling

Multi protection

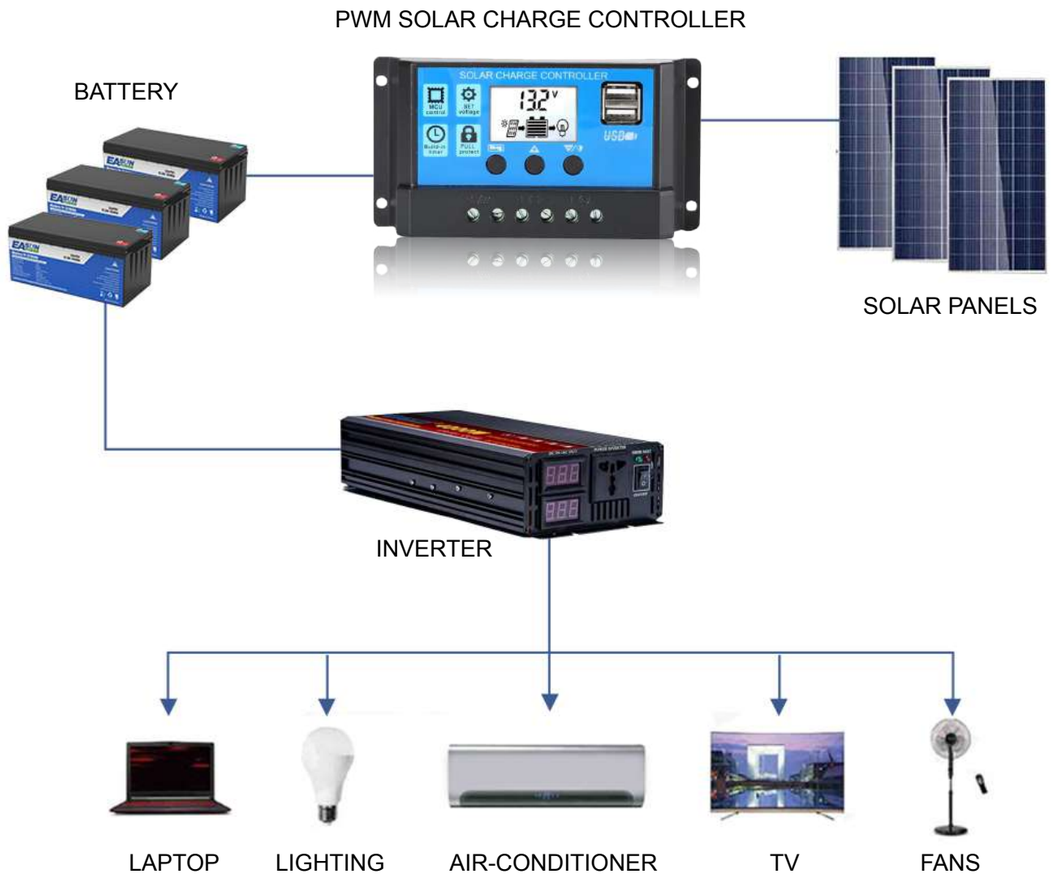
Battery smart charge design

Battery DC voltage 2V 24V Auto

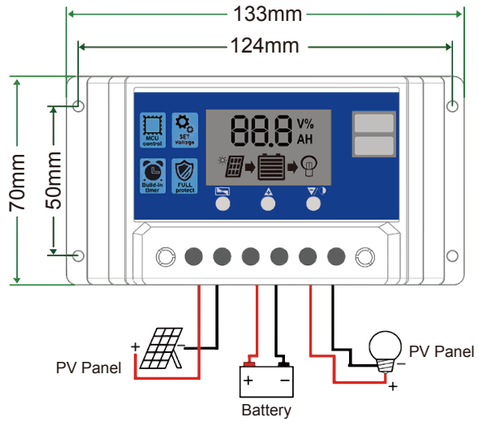
Features

- 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.
- Connect the consumer to the charge 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(for 24V battery) 25V(for 12V battery)					
Equalization	14.4V(Sealed) 14.2V(Gel) 14.6V(Flood)					
Float charge	13.7V(defaul,adjustable)					
Discharge stop	10.7V(defaul,adjustable)					
Discharge reconnect	12.6V(defaul,adjustable)					
Charge reconnect	13V					
Voltage of open light	Solar Panel 8V(Light lights delay)					
Voltage of close light	Solar Panel 8V(Light off delay)					
USB output	5V/3A					
Self-consume	<10mA					
Operating temperature	-35°C~+60°C					
Size	133.5*70*35mm			133.5*70*35mm		

EASUN POWER
Advancing power

Tracer-AN Series

MPPT Solar Charge Controller

Max charging current 10-40A

Radiating mode Fan cooling

Multi protection

Battery smart charge design

Battery DC voltage 12/24V Auto

Features

- 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	•PV Short Circuit	•PV Reverse Polarity
•Night Reverse Charging	•Battery Reverse Polarity	•Battery Over Voltage
•Battery Over Discharge	•Battery Overheating	•Controller Overheating
•Lithium Battery Low Temperature	•Load Short Circuit ,	•Load Overload
•TVS High Voltage Transients		

★When the internal temperature is 81℃, the reducing power charging mode which reduce the charging power of 5%,10%,20%,40% every increase 1 ℃is turned on. If the internal temperature is greater than 85℃, the controller will stop charging. But while the temperature decline to be below 75 ºC, 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
(3m)

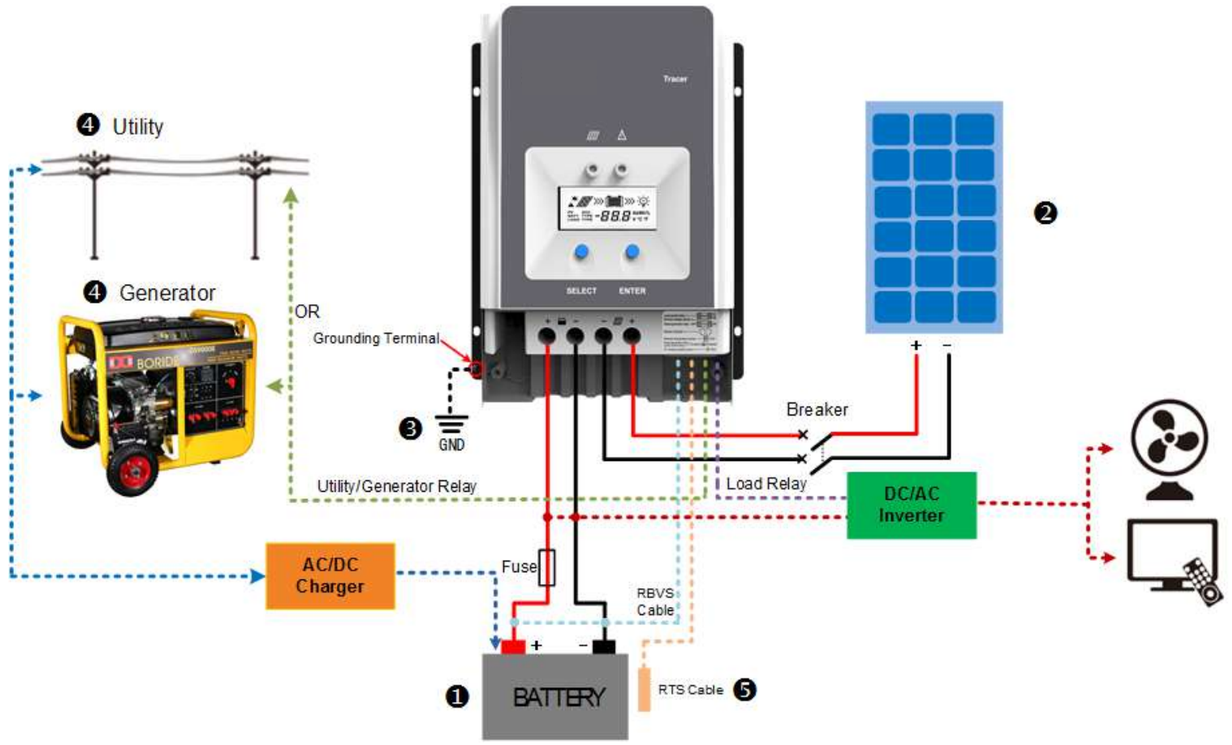
Bluetooth adapter (Box-BLE-01)
with 2m communication cable (for the controller with RS485 port)

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

One controller



Parallel operation

Item	Tracer 1206AN	Tracer 2206AN	Tracer 1210AN	Tracer 2210AN	Tracer 3210AN	Tracer 4210AN
System nominal voltage	12/24VDC① Auto					
Rated charge current	10A	20A	10A	20A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A
Battery voltage range	8～32V					
Max. PV open circuit voltage	60V② 46V③		100V② 92V③			
MPP voltage range	(Battery voltage +2V)～36V		(Battery voltage +2V)～72V			
Max. PV input power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V
Self-consumption	⩽12mA					
Discharge circuit voltage drop	⩽0.23V					
Temperature compensate coefficient④	-3mV/℃/2V (Default)					
Grounding	Common negative					
RS485 interface	5VDC/100mA					
LCD backlight time	60S (Default)					

Working environment temperature◆	-25℃～+50℃(100% input and output)
Storage temperature	-20℃～+70℃
Relative humidity	⩽95%, N.C.
Enclosure	IP30

Item	Tracer1206AN Tracer1210AN	Tracer2206AN Tracer2210AN	Tracer3210AN	Tracer4210AN
Dimension	172x139 x 44mm	220x154x 52mm	228x164x55mm	252x180x63mm
Mounting dimension	130x130mm	170x145mm	170x164mm	210x171mm
Mounting hole size	Φ5mm			
Terminal	12AWG(4mm²)	6AWG(16mm²)	6AWG(16mm²)	6AWG(16mm²)
Recommended cable	12AWG(4mm²)	10AWG(6mm²)	8AWG(10mm²)	6AWG(16mm²)
Weight	0.57kg	0.94kg	1.26kg	1.65kg
Certification	CE IEC62109			

EASUN POWER
Advancing power

IBattery-AY-100/200AH

LiFePO4 Battery

Compatible with Mainstream Inverters

BMS Self-developed

Communication Protocol Customization

Bluetooth(BT)

GPS

Support 15 in Parallel

High Cycle Life

Embedded Structure Design

Features

- Standardized design: standard 3U and 4U case, good applicability
- In parallel to enlarge energy: Add the current limiting module, support multiple battery parallel use, expand the battery capacity, meet the high energy demand of customers.
- Intelligent lithium battery management system: With RS485 communication, you can monitor the battery status at any time and set protection parameters such as charge and discharge according to customers'requirements.
- Warning function: Warning functions such as overcharge, overdischarge, overcurrent, high temperature and low temperature can greatly reduce the potential safety hazard.
- Balancing: Automatic collection of battery single series voltage, pressure difference up to 30MV (can be set), automatic start equalization function.

Interface Introduction

No.	Name	Silk-screen	Remark
1	Positive	+	M8 screw nut/Red
2	Negative	-	M8 screw nut/Black
3	RUN LED	RUN	Alarm indicator
4	ALM LED	ALM	Operation indicator
5	SOC LED	SOC	State of Charge
6	DIP switch	ADDR	Set the battery address
7	CAN/RS485	CAN/RS485	Battery and inverter Communication port
8	RS485 parallel port	485-1 485-2	Parallel communication port
9	LCD	/	Display of battery info.
10	Power button	ON/OFF	

Inventory of items

A

B

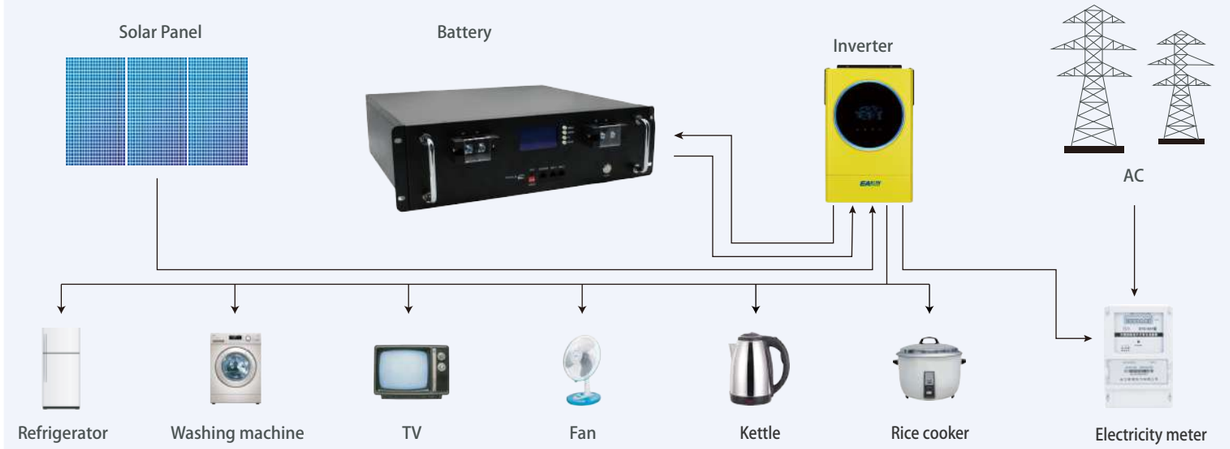
C

User Guider

D

No.	Items	Qty	Remark
A	Battery Pack	1	48V/51.2V100Ah/150Ah/200Ah
B	Inverter Power Cable (1000mm)	1	6AWG Wire - M6
	Communication Cable	1	Cable with RJ45 connecotor
C	Communication Tool	1	USB to RS485
D	User Guider	1	This document

Connected Systems



Product parameters

Model	IBattery-AY-100AH	IBattery-AY-200AH
Voltage	51.2Vdc	
Capacity	100AH	200AH
Energy	4.8KWh/5.12 KWh	9.6KWh/10.24KWh
Max. Charge voltage	54.75V/58.4V	
Cut-off Discharge voltage	39.0V/42.0V	
Stand. Charge current	50A	50A
Max. Charge current	100A	100A
Stand. Discharge current	100A	100A
Max. Discharge current	100A	100A
Peak Discharge current	150A	150A
Protections	OVP/UVP/OCP/OTP/UTP/SCP etc.	
Communication	RS485/CAN	
Work temperature	Charge: 0℃~45℃ Discharge: -15℃~60℃	
Storage temperature	0℃~45℃ @ 60±20% Relative Humidity	
Protection grade	IP21	
Dimensions(L*W*H)	442*400*223mm 442*420*133mm	442*680*223mm 442*680*133mm
Weight	44-50kg	90-100kg

EASUN POWER

Advancing power

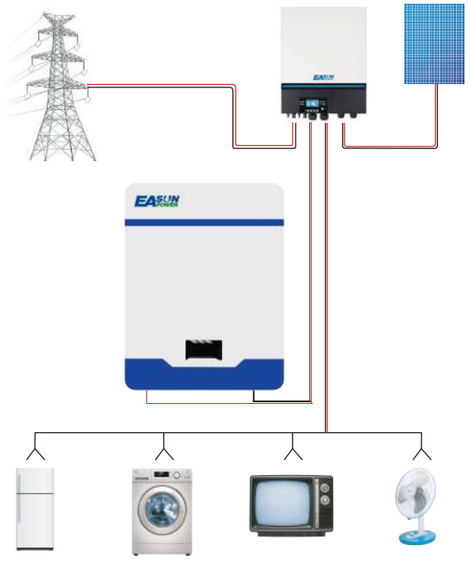
IBattery-PC-100/200AH

LiFePO4 Battery

Features

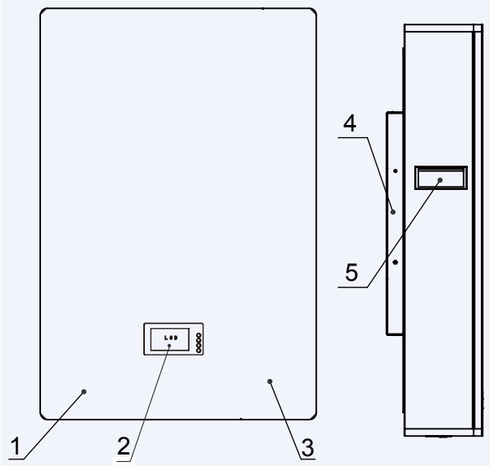
- The external LCD screen is used to monitor the energy storage battery data and operating status in real time.
- The battery adopts high-performance lithium iron phosphate battery with high safety performance and long service life
- The energy storage battery adopts intellizent air cooling and heat dissipation to improve the reliability of the product
- External weak current switch reduces product power consumption and improves the safety of transportation and storage
- With RS485/CAN communication function, it can easily communicate with the equipment with communication
- External wireless module can be connected for remote data monitoring and corresponding control
- It has multiple protection functions to protect the safety of power supply inan all-round way
- The output is stable and can be connected to different loads with in the voltage rang
- Support up to 15 independent modules for parallel use

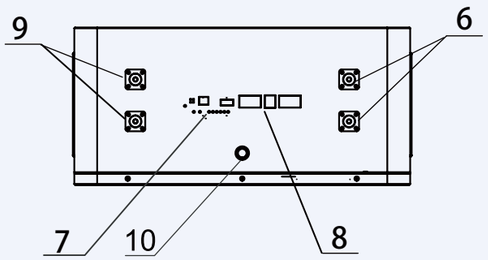
System Connection



Application Field

Product overview





1.White plate
2.LCD display
3.Black plate
4.Wall mounted bracket
5.Handle
6.M6 Negative terminal (2pc)
7.Battery indicator
8.RS232/RS485/CAN
9.M6 Negative terminal (2pc)
10.OFF/ON

Product parameters

Model	IBattery-PC-100AH	IBattery-PC-200AH
Nominal Voltage	51.2V	51.2V
Nominal Capacity	100AH	200AH
Effciency	⩾96%	⩾96%
Inner Resistance	10mΩ	7mΩ
Cell Type	LiFePO4	LiFePO4
Charge Voltage	58.4V	58.4V
Standard Charging Current	20A	40A
Max.Continuous Charging Current	100A	100A
Standard Discharge Current	20A	40A
Continuous Discharge Current	100A	100A
Peak Discharge Current	200A(3S)	
Discharge Cut-off Voltage	42V	
Charge Temperature Range	0~60°C	
Discharge Temperature Range	-10°C~65°C	
Storage Temperature Range	-5~40°C	
Storage Humidity	65±20％HR	
Size(LxWxH)	440×170×560mm	440×206×670mm
Package Size (L×W×H)	625×520×335mm	750×520×385mm
Shell Material	SPCC	
Net Weight	42kg	76kg
Gross Weight	53kg	91kg
Package Method	1pcs per carton	
Cycle Life	⩾6000 times	
Self Discharge	2% per month	
SOC Indication	LED Light& LCD Screen	
Communication Protocol	RS485/CAN	
Matching Inverter	Growatt, Goodwe, Deye, Luxpower, SRNE etc	

EASUN POWER
Advancing power

IBattery-TP Series

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


EV

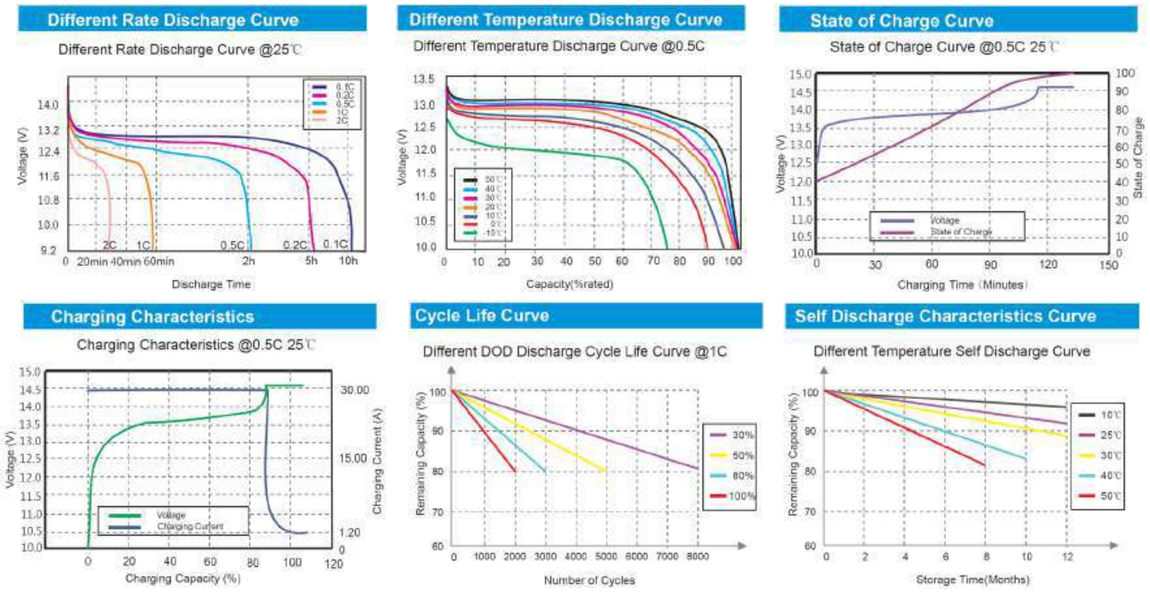

Golf cart


Emergency

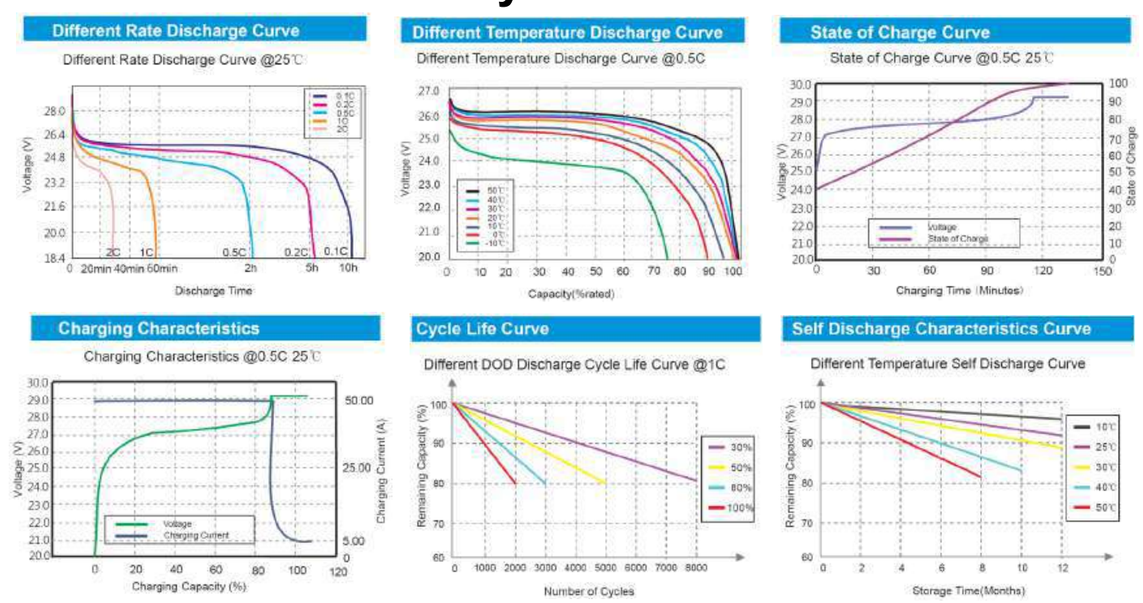

fishing


radio communication

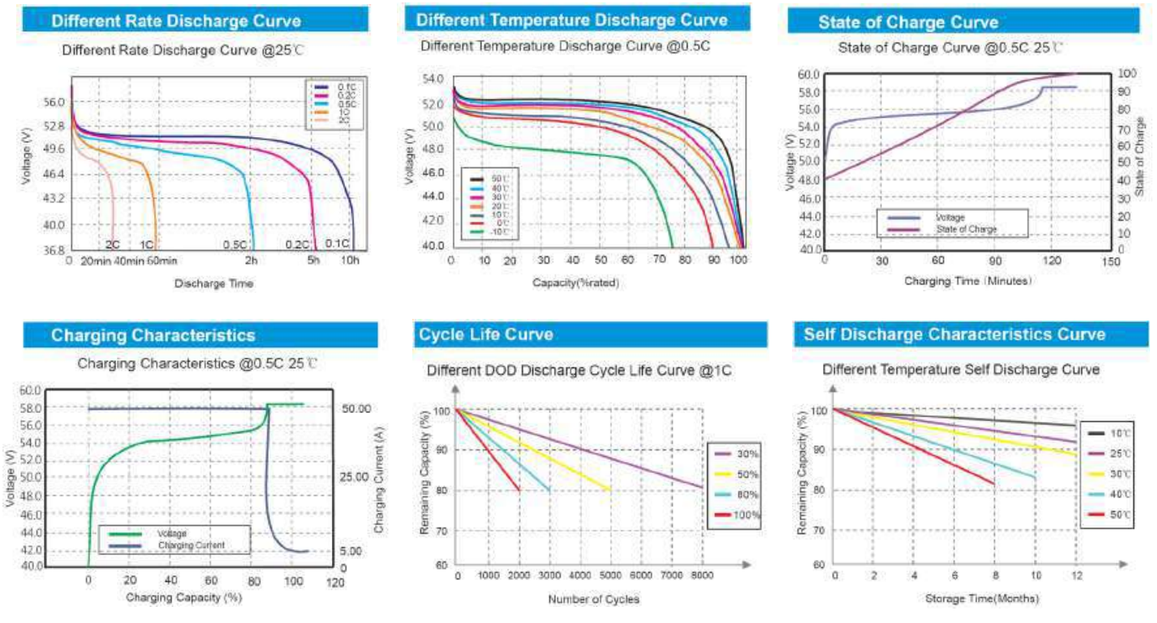
12V Series LFP Battery curves



24V Series LFP Battery curves



48V Series LFP Battery curves



EASUN POWER
Advancing power

12.8V deep LiFePO4 Battery

Model: IBattery-TP-1250AH	Size: 229*138*208 mm
Capacity: 50Ah	Weight: 6kg
Voltage: 12.8V	Number of cycles: >2000
Rated energy: 640Wh	Peak current: 150A,10Sec
Protect: IP65	Load power: ≤640W
Authentication: UN38.3/MSDS	Internal Resistance: ≤60mΩ

12.8V deep LiFePO4 Battery

Model: IBattery-TP-12100AH	Size: 330*173*220 mm
Capacity: 100Ah	Weight: 11.5kg
Voltage: 12.8V	Number of cycles: >2000
Rated energy: 1280Wh	Peak current: 250A,10Sec
Protect: IP65	Load power: ≤1280W
Authentication: UN38.3/MSDS	Internal Resistance: ≤40mΩ

12.8V deep LiFePO4 Battery

Model: IBattery-TP-12150AH	Size: 330*173*220 mm
Capacity: 150Ah	Weight: 18kg
Voltage: 12.8V	Number of cycles: >2000
Rated energy: 1920Wh	Peak current: 250A,10Sec
Protect: IP65	Load power: ≤1920W
Authentication: UN38.3/MSDS	Internal Resistance: ≤30mΩ

12.8V deep LiFePO4 Battery

Model: IBattery-TP-12200AH	Size: 522*243*218 mm
Capacity: 200Ah	Weight: 22.5kg
Voltage: 12.8V	Number of cycles: >2000
Rated energy: 2560Wh	Peak current: 250A,10Sec
Protect: IP65	Load power: ≤2560W
Authentication: UN38.3/MSDS	Internal Resistance: ≤30mΩ

25.6V deep LiFePO4 Battery

Model: IBattery-TP-2450AH	Size: 330*173*212 mm
Capacity: 50Ah	Weight: 11.5kg
Voltage: 25.6V	Number of cycles: >2000
Rated energy: 1280Wh	Peak current: 150A,10Sec
Protect: IP65	Load power: ≤1280W
Authentication: UN38.3/MSDS	Internal Resistance: ≤80mΩ

25.6V deep LiFePO4 Battery

Model: IBattery-TP-24100AH	Size: 406*174*232 mm
Capacity: 100Ah	Weight: 18kg
Voltage: 25.6V	Number of cycles: >2000
Rated energy: 2560Wh	Peak current: 150A,10Sec
Protect: IP65	Load power: ≤2560W
Authentication: UN38.3/MSDS	Internal Resistance: ≤80mΩ

25.6V deep LiFePO4 Battery

Model: IBattery-TP-24200AH	Size: 522*240*218 mm
Capacity: 200Ah	Weight: 22.5kg
Voltage: 25.6V	Number of cycles: >2000
Rated energy: 5120Wh	Peak current: 300A,10Sec
Protect: IP65	Load power: ≤5120W
Authentication: UN38.3/MSDS	Internal Resistance: ≤60mΩ

51.2V deep LiFePO4 Battery

Model: IBattery-TP-4850AH	Size: 406*174*232 mm
Capacity: 50Ah	Weight: 22.5kg
Voltage: 51.2V	Number of cycles: >2000
Rated energy: 2560Wh	Peak current: 150A,10Sec
Protect: IP65	Load power: ≤2560W
Authentication: UN38.3/MSDS	Internal Resistance: ≤80mΩ

51.2V deep LiFePO4 Battery

Model: IBattery-TP-48100AH	Size: 522*240*218 mm
Capacity: 100Ah	Weight: 22.5kg
Voltage: 51.2V	Number of cycles: >2000
Rated energy: 5120Wh	Peak current: 200A,10Sec
Protect: IP65	Load power: ≤5120W
Authentication: UN38.3/MSDS	Internal Resistance: ≤80mΩ

IPOWER 2/3/4/5/6/8KW

PURE SINE WAVE INVERTER

IPOWER 2-8KW Technical Parameter

Model	IPower-2000W	IPower-3000W	IPower-4000W	IPower-5000W	IPower-6000W	IPower-8000W
Peak power	2000W	3000W	4000W	5000W	6000W	8000W
Rated power	1000W	1500W	2000W	2500W	3000W	4000W
Wavefom Output Voltage	Pure sine wave inverter					
Output voltage	110/220V					
Output frquency	50Hz					
Input voltage	12V/24V				12V/24V/48V/60V	
Size	345*175*75mm	350*220*140mm	400*220*140mm	400*220*140mm	368*220*900mm	468*220*900mm
Net weight	2KG	2.35KG	2.7KG	2.8KG	5KG	6.3KG

Application Scenario

Electric kettle

Micro-wave oven

Refrigerator freezer

Air conditioner

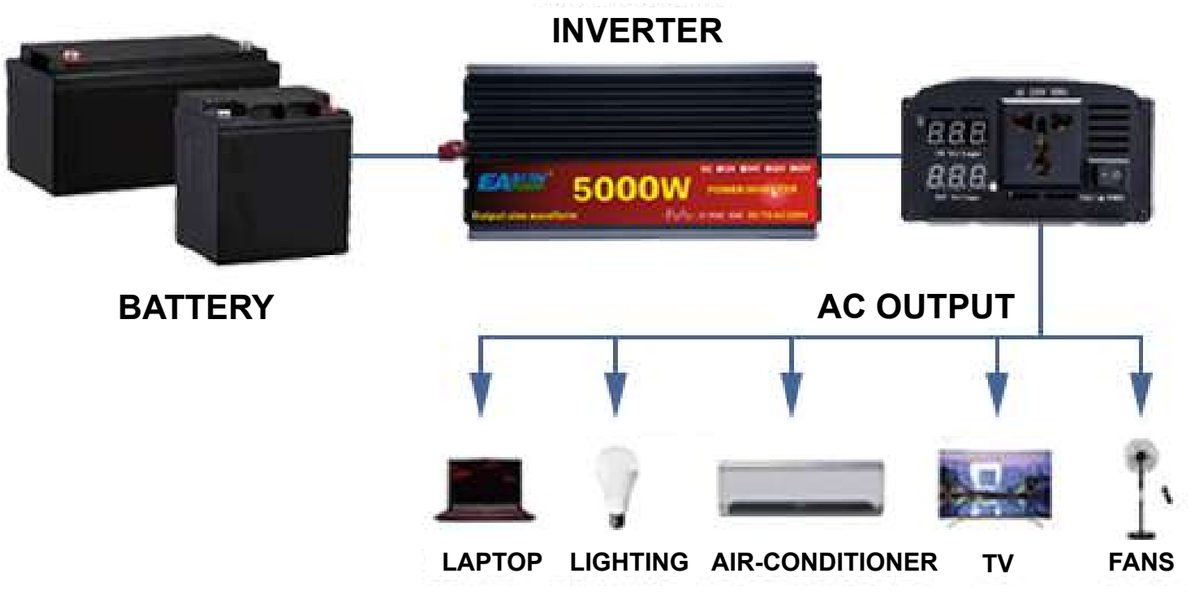
Coffee macgine

Impact brick

Air pump

Water pump

System connection diagram



Product Introduction

IPower-2000W

Pure Sine Wave Inverter

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

IPower-3000W

Pure Sine Wave Inverter

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

IPower-4000W

Pure Sine Wave Inverter

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

IPower-5000W

Pure Sine Wave Inverter

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

IPower-6000W

Pure Sine Wave Inverter

Peakpower:6000W
Ratedpower:3000W
Outputvoltage:110/220V
Outputfrquency:50HZ
Inputvoltage:12/24/48/60V
Size:36.8*22*90cm
Packageweighi:5kg

IPower-8000W

Pure Sine Wave Inverter

Peakpower:8000W
Ratedpower:4000W
Outputvoltage:110/220V
Outputfrquency:50HZ
Inputvoltage:12/24/48/60V
Size:46.8*22*90cm
Packageweighi:6.3kg

EASUN POWER
Advancing power

IPOWER 1KW 1.6KW 2.2KW 3KW

PURE SINE WAVE INVERTER

IPOWER 1-3KW Technical Parameter

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

Application Scenario

Electric kettle

Micro-wave oven

Refrigerator freezer

Air conditioner

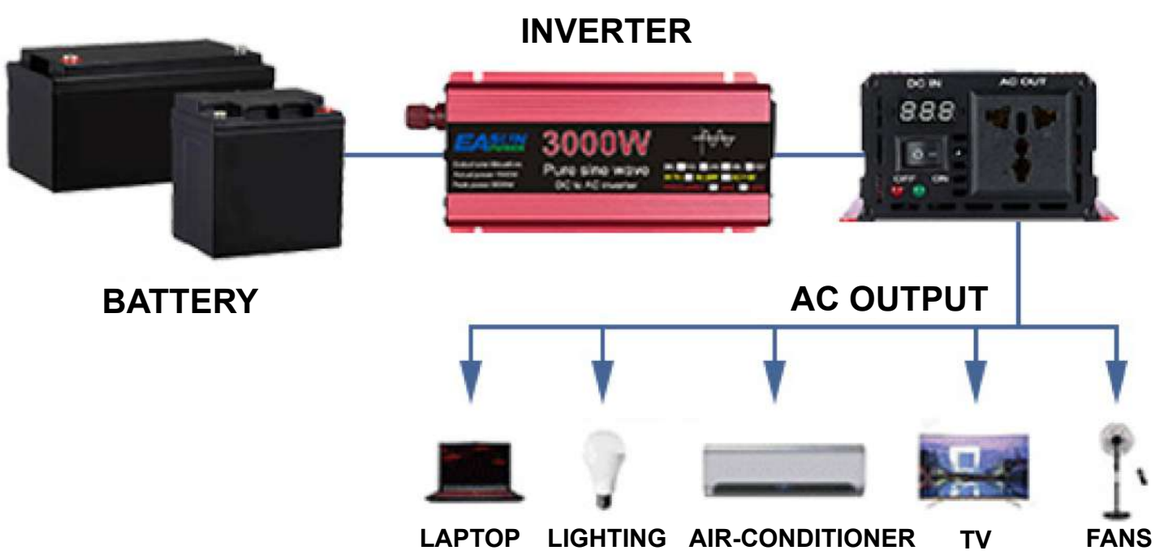
Coffee macgine

Impact brick

Air pump

Water pump

System connection diagram



IPower-1000W-12/24V-220V

Pure Sine Wave Inverter

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

IPower-1600W-12/24V-220V

Pure Sine Wave Inverter

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

IPower-2200W-12/24V-220V

Pure Sine Wave Inverter

Peakpower:2200W
Ratedpower:1100W
Outputvoltage:220V±10%/110V±10%
Outputfrquency:50/60HZ
Inputvoltage:12/24/48/60V
Size:28*11*6cm
Packageweighi:1.05kg

IPower-3000W-12/24V-220V

Pure Sine Wave Inverter

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 800/1000/2000/3000/4000W

MODIFIED SINE WAVE INVERTER

Application Scenario

Electric kettle

Micro-wave oven

Refrigerator freezer

Air conditioner

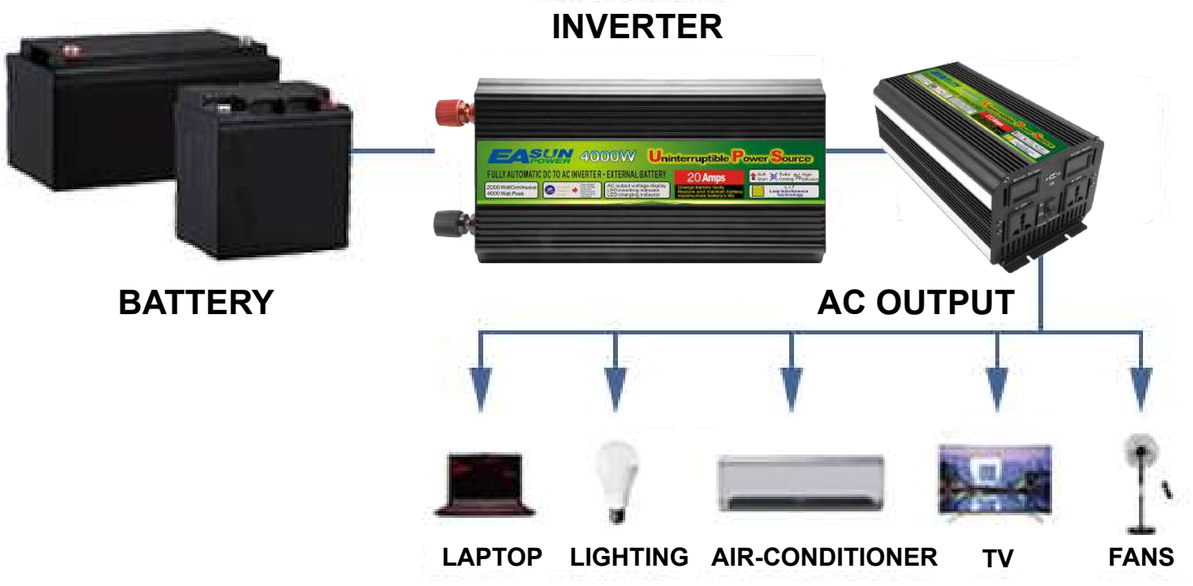
Coffee macgine

Impact brick

Air pump

Water pump

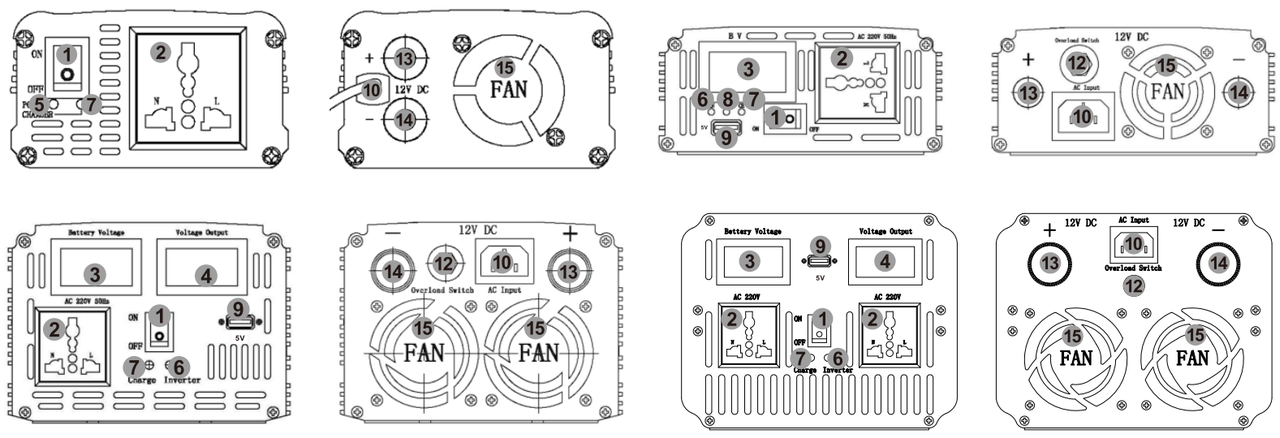
System connection diagram



IPOWER 800-4000W Technical Parameter

Model	PJ-800W	PJ-1000W	PJ-2000W	PJ-3000W	PJ-4000W
Rated Power	350W	500W	1000W	1500W	2000W
Frequency	50Hz/60Hz(Optional)				
Wave From	Modified Sine Wave				
Input Voltage	12V/24V(Optional)				
Output Voltage	110/120/220/230/240V(Optional)				
Efficiency	⩾90%				
Battery type	Lead acid battery				
Charging mode	The three-phase charging method (constant current,constant voltage,floating charge)				
Conversions time	⩽20mS				
5V	NO	YES			
Cooling Mode	Smart fan(Automatic startup of high temperature and load)				
Charge Protection	Input high voltage protection,input low voltage protection,short circuit				
Working Temperature	0-40℃				
Working Humidity	20-90%RH				
Size (MM)	242*95*54	203*140*64	248*140*64	333*150*107	384*180*142
Gross weight (KG)	1.02	1.6	1.83	3.5	5.6

Product Introduction



1. Powerswitch
2. AC output socket
3. Battery voltage monitor
4. Outputvoltage monitor
5. Powerindicator
6. Inverterindicator
7. Chargingindicator
8. 5Vindicator
9. 5vinterface
10. ACinputinterface
11. AC outputinterface
12. Overload protection switch
13. Positive (Red)
14. Negative (Black)
15. Smart FAN

EASUN POWER
Advancing power

Product Introduction

PJ-800W-12V-220V

Modified Sine Wave

Peakpower:800W
Ratedpower:350W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:24V
Size:242*95*54mm
Packageweighi:1.02kg

PJ-1000W-12V-220V

Modified Sine Wave

Peakpower:1000W
Ratedpower:500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:203*140*64mm
Packageweighi:1.6kg

PJ-2000W-12V-220V

Modified Sine Wave

Peakpower:2000W
Ratedpower:1000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:248*140*64mm
Packageweighi:1.83kg

PJ-3000W-12V-220V

Modified Sine Wave

Peakpower:3000W
Ratedpower:1500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:333*150*107mm
Packageweighi:3.5kg

PJ-4000W-12V-220V

Modified Sine Wave

Peakpower:4000W
Ratedpower:2000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:384*180*142mm
Packageweighi:5.6kg

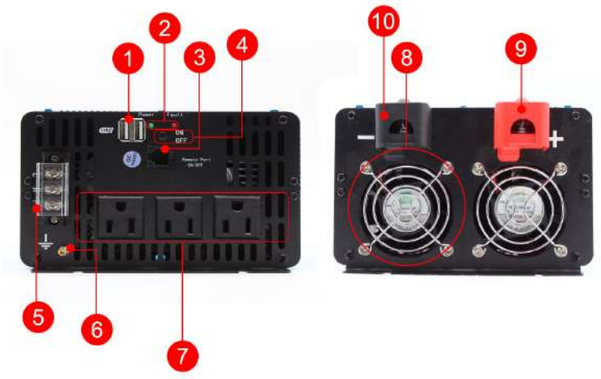
IPOWER 1000W 2000W

PURE SINE WAVE INVERTER

Application Scenario

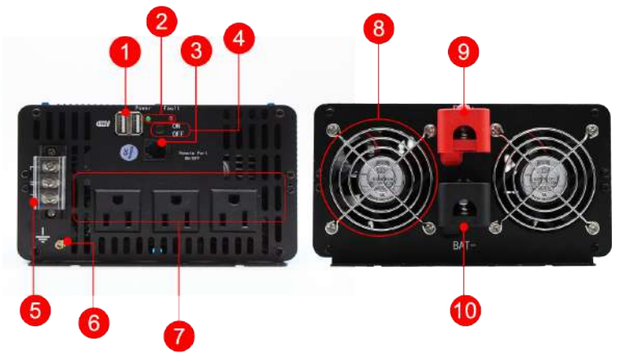
Product Overview

DX-1KW-12V-220V



1.USB Interface
2.Indicator Light
3.Cable Connector
4.Switch
5.AC Terminal Blocks
(for heavy duty use)

DX-2KW-12V-220V



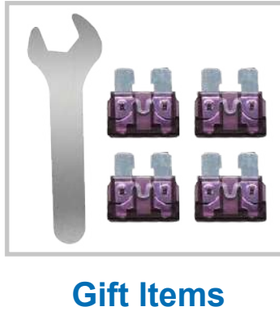
6.Ground Wire
7.European Standard Socket
8.Inelligent Fan
9.Positive Terminal
10.Negative terminal

IPOWER 1000-2000W Technical Parameter

Model	DX-1KW-12V	DX-2KW-12V
Output Power	1000W	2000W
Peak power	2000W	4000W
Input Voltage	12V	
Output Voltage	220V±5%	
Output Frequency	60/50HZ	
Output waveform	Pure sine wave	
Output eficiency	90%	
Product color	Blue	
Product size	320*185*95mm	
Product weight	3.93kg	

Product packaging

Inverter



Gift Items
Fuses,Wrench,Earth wire

Battery Cable
2x 3ft(80cm) 2AWG

Remote control
15ft length

Product Introduction

DX-1KW-12V-220V

Pure sine wave inverter

Output Power:1000W
Rated power:2000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:320*185*95mm
Packageweighi:3.93kg

DX-2KW-12V-220V

Pure sine wave inverter

Output Power:2000W
Rated power:4000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:320*185*95mm
Packageweighi:3.93kg

EASUN POWER
Advancing power

IPOWER 1/1.6/2/2.6/3/4/5/6/8KW

PURE SINE WAVE CAR INVERTER

IPOWER 1000-8000W Technical Parameter

Model	CI-1000W	CI-1600W	CI-2000W	CI-2600W
Peak power	1000W	1600W	2000W	2600W
Continuous power	500W	800W	1000W	1300W
Input voltage	12V/24V/48V/60V			
The output voltage	220V			
Frequency	50HZ/60HZ			
Output waveform	Pure sine wave			
Size（mm）	220*98*55	246*105*55	300*98*55	340*98*55
Net weight	0.75kg	0.95kg	1.2kg	1.4kg

Model	CI-3000W	CI-4000W	CI-5000W	CI-6000W	CI-8000W
Peak power	3000W	4000W	5000W	6000W	8000W
Continuous power	1500W	1800W	2500W	3000W	3500W
Input voltage	12V/24V/48V/60V				
The output voltage	220V				
Frequency	50HZ/60HZ				
Output waveform	Pure sine wave				
Size（mm）	258*150*75	277*150*75	320*180*135	358*180*135	462*180*135
Net weight	1.75kg	2.1kg	4.25kg	4.75kg	6.1kg

Product Introduction

CI-1000W-12V-220V

Pure Sine Wave Inverter

Peakpower:1000W
Ratedpower:500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:22*9.8*5.5cm
Packageweighi:0.75kg

CI-1600W-12V-220V

Pure Sine Wave Inverter

Peakpower:1600W
Ratedpower:800W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:24.6*10.5*5.5cm
Packageweighi:0.95kg

CI-2000W-12V-220V

Pure Sine Wave Inverter

Peakpower:2000W
Ratedpower:1000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:30*9.8*5.5cm
Packageweighi:1.2kg

CI-2600W-12V-220V

Pure Sine Wave Inverter

Peakpower:2600W
Ratedpower:1300W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:34*9.8*5.5cm
Packageweighi:1.4kg

CI-3000W-12V-220V

Pure Sine Wave Inverter

Peakpower:3000W
Ratedpower:1500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:25.8*15*7.5cm
Packageweighi:1.75kg

CI-4000W-12V-220V

Pure Sine Wave Inverter

Peakpower:4000W
Ratedpower:1800W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:27.7*15*7.5cm
Packageweighi:2.1kg

CI-5000W-12V-220V

Pure Sine Wave Inverter

Peakpower:5000W
Ratedpower:2500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:32*18*13.5cm
Packageweighi:4.25kg

CI-6000W-12V-220V

Pure Sine Wave Inverter

Peakpower:6000W
Ratedpower:3000W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:12V
Size:35.8*18*13.5cm
Packageweighi:4.75kg

CI-8000W-48V-220V

Pure Sine Wave Inverter

Peakpower:8000W
Ratedpower:3500W
Outputvoltage:220V
Outputfrquency:50/60HZ
Inputvoltage:48V
Size:46.2*18*13.5cm
Packageweighi:6.1kg

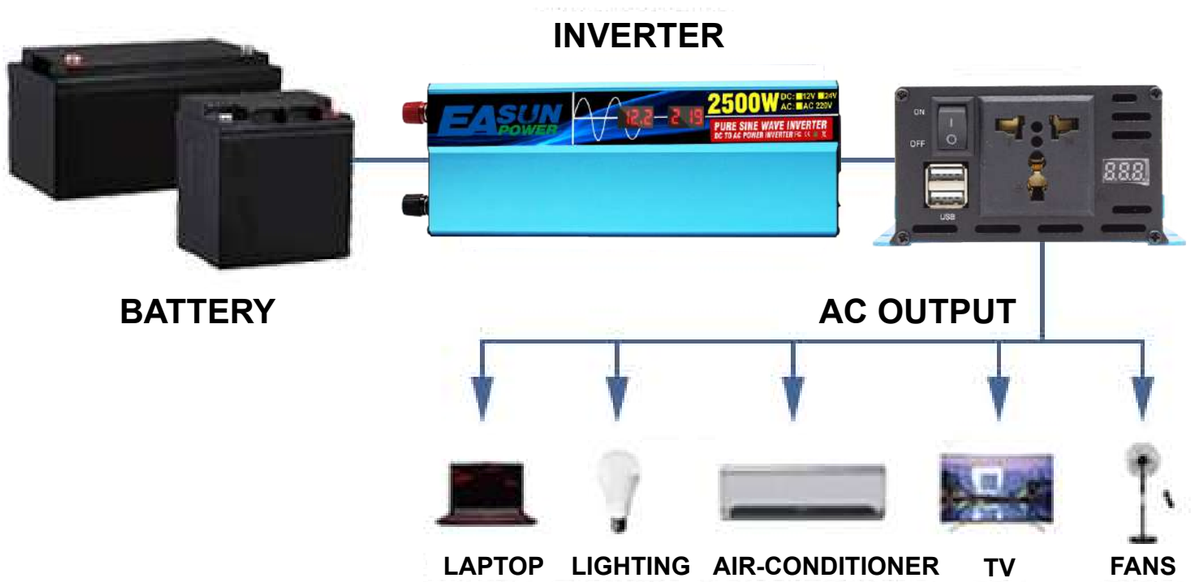
EASUN POWER
Advancing power

IPOWER 1500W 1800W 2500W

PURE SINE WAVE INVERTER

Application Scenario

System connection diagram



IPOWER 1500-2500W Technical Parameter

Model	DX-1500W	DX-1800W	DX-2500W
continuous power	400W	600W	1000W
peak power	800W	1200W	2000W
no-load current	<0.35A		
Input DC voltage range	DC12V		
output voltage range	AC220±5%		
Output frequency range	50+/- 3Hz		
Maximum external temperature	< 75℃		
Maximum power efficiency	> 86%		
High voltage alarm	>DC15.5+/-0.5V		
low air pressure alarm	DC10.5+/-0.5V		
low-voltage protection	<DC10V		
Overload and short circuit protection	yes		
input voltage	DC 12V		
harmonic distortion	⩽5%		
wave mode	Pure sine wave inverter		
With USB	5V 2.1A		2*(5V 2.1A)
Built-in cooling fan	yes		
LED Screen	yes		
product size	165*95*55mm	200*95*55mm	250*103*55mm
suttle(piece/kg)	0.65Kg	0.85Kg	1.25Kg

Product Introduction

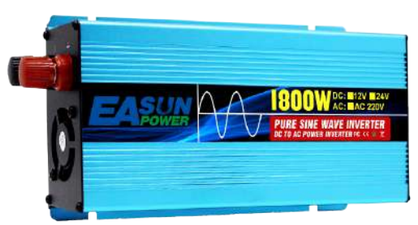
DX-1500W-12V-220V

Pure sine wave inverter

Continuous power:400W
Rated power:800W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:165*95*55mm
Packageweighi:0.65kg

DX-1800W-12V-220V

Pure sine wave inverter



Continuous power:600W
Rated power:1200W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:200*95*55mm
Packageweighi:0.85kg

DX-2500W-12V-220V

Pure sine wave inverter

Continuous power:1000W
Rated power:2000W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:250*103*55mm
Packageweighi:1.25kg

EASUN POWER
Advancing power

IPOWER 1500W 2000W 2600W

MODIFIED SINE WAVE INVERTER

Application Scenario

Electric kettle

Micro-wave oven

Refrigerator freezer

Air conditioner

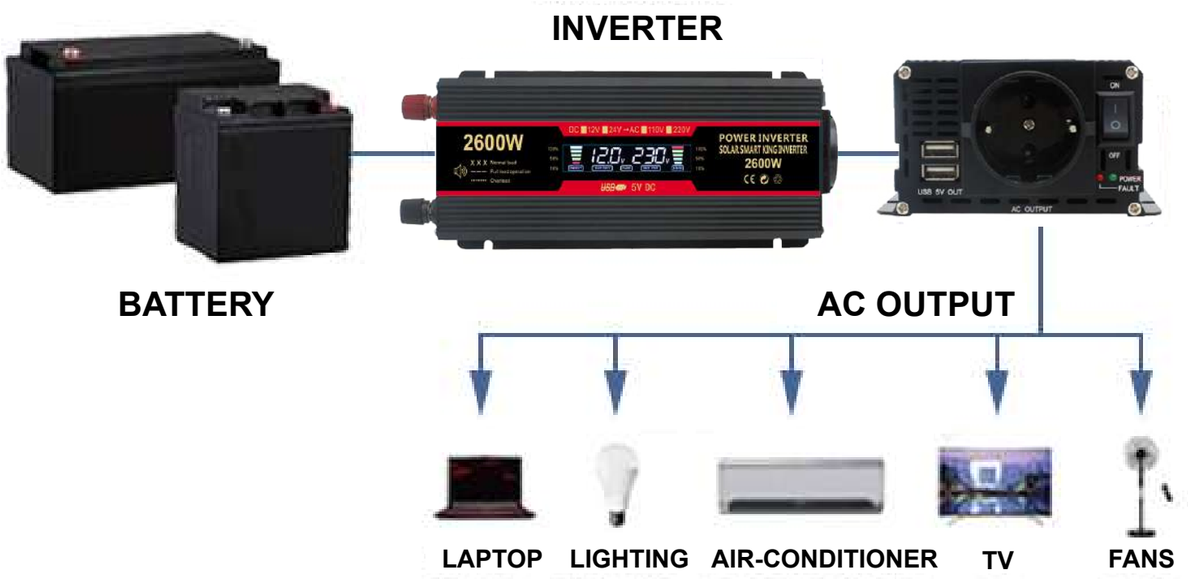
Coffee macgine

Impact brick

Air pump

Water pump

System connection diagram



IPOWER 1500-2600W Technical Parameter

Model	KML-1500W	KML-2000W	KML-2600W
Peak Output Power	1500W	2000W	2600W
Continues Output Power	950W	1000W	1300W
30-minute Output Power	750W	800W	1100W
Output Waveform	Modified sine wave		
Frequency	50HZ±2HZ		
No load current draw	<0.8Amps		
nversion Efficiency	>90%		
input DC Voltage	12V		
DC Voltage Range	9V-15.5V		
output AC Voltage	220V		
AC Voltage Range	210V-240V		
Low Voltage Alarm	10V DC±0.5V		
Low Voltage Shut Down	9V DC±0.5V		
Over Load	Shut Off Output		
Over Voltage Shut Down	15.5V		
Over Thermal	Shut Off Output Automatically		
Fuses	Short Circuit		
Start	Soft Start		
Protection	Overload, Short Circuit, Overtemp, Reverse Polarity, Under/Over Voltage		
Cooling Fans			
Production Condition	Brand New		
2 Year Warranty	(1 Year Manufacturer + 1 Year VMInnovations)		
Machine Size(mm)	210*110*60	240*110*60	260*110*60
Net Weight(kgs)	0.9	1.2	1.5
USB	Double USB 3.1A		

Product Introduction

KML-1500W-12V-220V

Modified Sine Wave

Peakpower:1500W
Ratedpower:950W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:210*110*60mm
Packageweighi:0.9kg

KML-2000W-12V-220V

Modified Sine Wave

Peakpower:2000W
Ratedpower:1000W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:240*110*60mm
Packageweighi:1.2kg

KML-2600W-12V-220V

Modified Sine Wave

Peakpower:2600W
Ratedpower:1300W
Outputvoltage:220V
Outputfrquency:50HZ
Inputvoltage:12V
Size:260*110*60mm
Packageweighi:1.5kg

EASUN POWER
Advancing power

Module Features

Multi Busbars Technology

Better light utilization and current collection ability, effective improving the power output and reliability.

Better Resistance to Hot Spots

Obtaining better temperature coefficient and resistance to hot spots by optimizing the circuit design and operating current.

Anti PID Assurance

Minimizing the attenuation probability caused by the PID phenomenon through optimized solar cell production technology and material control.

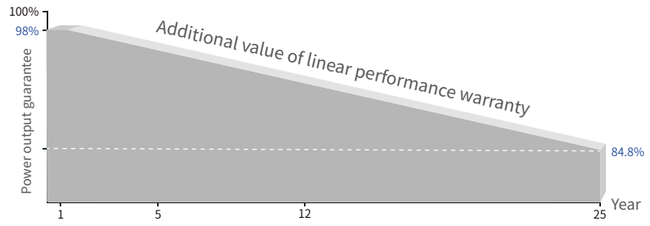
Operational in Harsh Environment

High salt spray and high ammonia corrosion test certificated by the third party.

Load Capability

2400Pa wind load and 5400Pa snow load certification.

Industry Leading Linear Warranty



10-year warranty for material & craft

25-year linear warranty

Exceptional warranty commitment 25 years power warranty

0.55% linear power attenuation

Multi Busbars Monocrystalline Module

Electrical Parameter at STC

Maximum Power	Pmax (W)	350	360	370	380	390
Operating Voltage at Maximum Power	Vmp (V)	33.60	34	34.4	34.8	35.2
Operating Current at Maximum Power	Imp (A)	10.42	10.59	10.76	10.92	11.21
Open Circuit Voltage	Voc (V)	40.1	40.5	40.9	41.3	41.7
Short Circuit Current	Isc (A)	11.18	11.35	11.52	11.69	11.81
Module Efficiency	(%)	19.3	19.8	20.3	20.9	21.2
Power Tolerance	(W)			0～+5W		

* Standard test conditions (STC): air mass AM1.5, irradiance 1000W / m2, cell temperature 25 °C.

Electrical Parameter at NOCT

Maximum Power	Pmax (W)	261.3	268.8	276.3	283.8	291.3
Operating Voltage at Maximum Power	Vmp (V)	31.4	31.7	32	32.4	33.1
Operating Current at Maximum Power	Imp (A)	8.35	8.49	8.63	8.76	8.93
Open Circuit Voltage	Voc (V)	37.7	38	38.3	38.7	39.2
Short Circuit Current	Isc (A)	9.02	9.17	9.32	9.45	9.68

* Nominal Operating Cell Temperature (NOCT): irradiance 800W / m2, cell temperature 20°C, wind speed 1m/s.

Material Data

Cell Type	166Monocrystalline
Number of Cells	120 pcs(6x20)
Module Dimension	1765×1048×35mm
Weight	19.5 kg
Glass	3.2mm high transmittance, anti-reflection coated tempered glass
Back Sheet	White
Frame	Anodized aluminum alloy
Junction Box	Protection degree IP68
Cable	4mm², 240mm long PV cable
Quantity of diodes	3
Wind Load/Snow Load	2400pa / 5400pa
Connector	Compatible MC4 connector

Temperature Characteristics

Nominal Operating Temperature of Cell	44±2°C
Temperature Coefficient(Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.30%/°C
Temperature Coefficient (Pmax)	-0.39%/°C

Limit Parameter

Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	20A

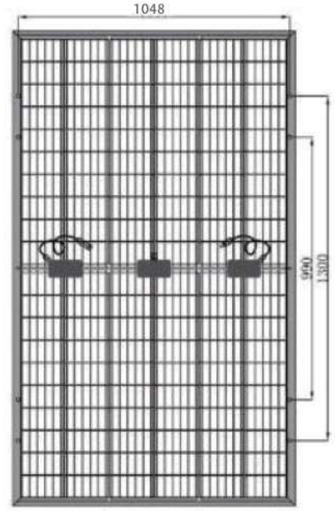
Packaging

Quantity /Pallet		31 pcs
17.5*2.8m	Truck Loading Quantity	1240 pcs
13.0*2.35m	Truck Loading Quantity	930 pcs
20GP	Container	372 pcs
40HQ	Container	868 pcs

Options Available

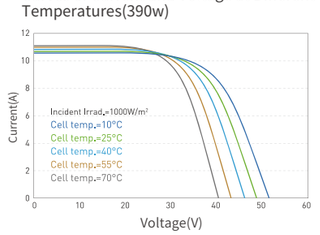
Connector	☐ Original MC4	
Cable Length	☐ 250mm	☐ 260mm
Frame	☐ Black	
Module Dimension	☐ 1765x1048x40mm	
Colour of Back Sheet	☐ Black	☐ Transparent

Module Dimension

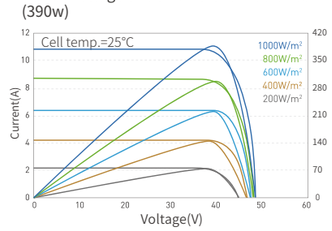


Back view

Curves of Current and Voltage at Different Temperatures(390w)



Curves of Current and Voltage/Curves of Power Voltage under Different Irradiance (390w)



EASUN POWER
Advancing power

EASUN POWER

Module Features

Multi Busbars Technology

Better light utilization and current collection ability, effective improving the power output and reliability.

Better Resistance to Hot Spots

Obtaining better temperature coefficient and resistance to hot spots by optimizing the circuit design and operating current.

Anti PID Assurance

Minimizing the attenuation probability caused by the PID phenomenon through optimized solar cell production technology and material control.

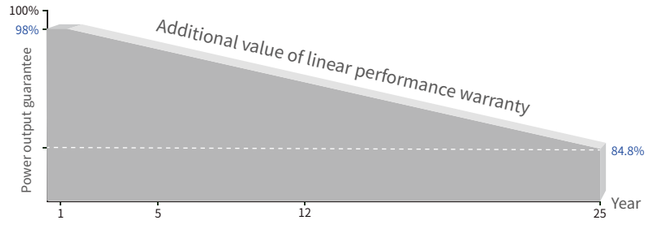
Operational in Harsh Environment

High salt spray and high ammonia corrosion test certificated by the third party.

Load Capability

2400Pa wind load and 5400Pa snow load certification.

Industry Leading Linear Warranty



10-year warranty for material & craft

25-year linear warranty

Exceptional warranty commitment 25 years power warranty

0.55% linear power attenuation

Multi Busbars Monocrystalline Module

Electrical Parameter at STC

Maximum Power	Pmax (W)	425	430	435	440	445	450	455
Operating Voltage at Maximum Power	Vmp (V)	40.80	41.10	41.30	41.50	41.70	42.00	42.20
Operating Current at Maximum Power	Imp (A)	10.42	10.47	10.54	10.61	10.68	10.73	10.79
Open Circuit Voltage	Voc (V)	48.20	48.40	48.60	48.80	49.00	49.2	49.40
Short Circuit Current	Isc (A)	11.12	11.17	11.22	11.27	11.32	11.37	11.42
Module Efficiency	(%)	19.2	19.5	19.7	19.9	20.1	20.4	20.6
Power Tolerance	(W)				0～+5W			

* Standard test conditions (STC): air mass AM1.5, irradiance 1000W / m2, cell temperature 25 °C.

Electrical Parameter at NOCT

Maximum Power	Pmax (W)	317	321	325	329	332	336	340
Operating Voltage at Maximum Power	Vmp (V)	37.7	37.9	38.0	38.3	38.5	38.6	38.8
Operating Current at Maximum Power	Imp (A)	8.42	8.48	8.54	8.60	8.64	8.70	8.76
Open Circuit Voltage	Voc (V)	45.4	45.6	45.8	46.0	46.2	46.5	46.7
Short Circuit Current	Isc (A)	9.08	9.14	9.20	9.26	9.32	9.38	9.44

* Nominal Operating Cell Temperature (NOCT): irradiance 800W /m2, cell temperature 20°C, wind speed 1m/s.

Material Data

Cell Type	166Monocrystalline
Number of Cells	144 pcs(6x24)
Module Dimension	2108×1048×35mm
Weight	25kg
Glass	3.2mm high transmittance, anti-reflection coated tempered glass
Back Sheet	White
Frame	Anodized aluminum alloy
Junction Box	Protection degree IP68
Cable	4mm☒, 900mm long PV cable
Quantity of diodes	3
Wind Load/Snow Load	2400pa / 5400pa
Connector	Compatible MC4 connector

Temperature Characteristics

Nominal Operating Temperature of Cell	44±2°C
Temperature Coefficient(Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.30%/°C
Temperature Coefficient (Pmax)	-0.39%/°C

Limit Parameter

Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	20A

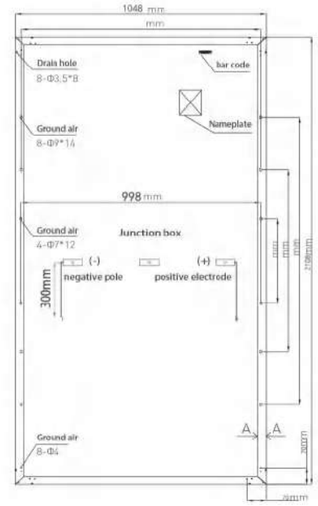
Packaging

Quantity /Pallet		31 pcs
17.5*2.8m	Truck Loading Quantity	992 pcs
13.0*2.35m	Truck Loading Quantity	744 pcs
20GP	Container	155 pcs
40HQ	Container	682 pcs

Options Available

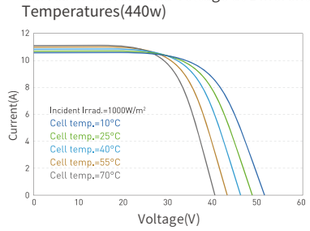
Connector	☐ Original MC4	
Cable Length	☐ 1000mm	☐ 900mm
Frame	☐ Black	
Module Dimension	☐ 2108x1048x40mm	
Colour of Back Sheet	☐ Black	☐ Transparent

Module Dimension

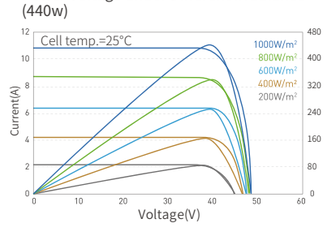


Back view

Curves of Current and Voltage at Different Temperatures(440w)



Curves of Current and Voltage/Curves of Power Voltage under Different Irradiance (440w)



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Module Features

Multi Busbars Technology

Better light utilization and current collection ability, effective improving the power output and reliability.

Better Resistance to Hot Spots

Obtaining better temperature coefficient and resistance to hot spots by optimizing the circuit design and operating current.

Anti PID Assurance

Minimizing the attenuation probability caused by the PID phenomenon through optimized solar cell production technology and material control.

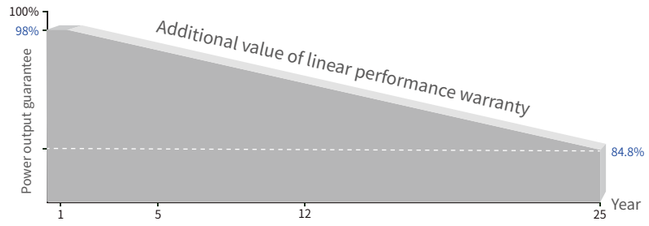
Operational in Harsh Environment

High salt spray and high ammonia corrosion test certificated by the third party.

Load Capability

2400Pa wind load and 5400Pa snow load certification.

Industry Leading Linear Warranty



10-year warranty for material & craft

25-year linear warranty

Exceptional warranty commitment 25 years power warranty

0.55% linear power attenuation

Multi Busbars Monocrystalline Module

Electrical Parameter at STC

Maximum Power	Pmax (W)	530	535	540	545	550
Operating Voltage at Maximum Power	Vmp (V)	41.35	41.50	41.65	41.80	41.95
Operating Current at Maximum Power	Imp (A)	12.9	12.90	12.97	13.04	13.12
Open Circuit Voltage	Voc (V)	49.20	49.35	49.50	49.65	49.80
Short Circuit Current	Isc (A)	13.71	13.78	13.85	13.92	13.98
Module Efficiency	(%)	20.7	20.9	21.2	21.3	21.5
Power Tolerance	(W)			0～+5W		

* Standard test conditions (STC): air mass AM1.5, irradiance 100W / m2, cell temperature 25 °C.

Electrical Parameter at NMOT

Maximum Power	Pmax (W)	395.8	399.5	403.5	407.0	410.7
Operating Voltage at Maximum Power	Vmp (V)	38.5	38.64	38.78	38.92	39.06
Operating Current at Maximum Power	Imp (A)	10.28	10.34	10.34	10.46	10.52
Open Circuit Voltage	Voc (V)	46.12	46.26	46.26	46.55	46.69
Short Circuit Current	Isc (A)	11.09	11.15	11.15	11.25	11.31

* NMOT: irradiance 800W / m2, cell temperature 20°C, wind speed1m/s.

Material Data

Cell Type	182Monocrystalline
Number of Cells	144 pcs(6x24)
Module Dimension	2279×1134×35mm
Weight	27 kg
Glass	3.2mm high transmittance, anti-reflection coated tempered glass
Back Sheet	White
Frame	Anodized aluminum alloy
Junction Box	Protection degree IP68
Cable	4mm☒, 240mm long PV cable
Quantity of diodes	3
Wind Load/Snow Load	2400pa / 5400pa
Connector	Compatible MC4 connector

Temperature Characteristics

Nominal Operating Temperature of Cell	44±2°C
Temperature Coefficient(Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.30%/°C
Temperature Coefficient (Pmax)	-0.39%/°C

Limit Parameter

Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	20A

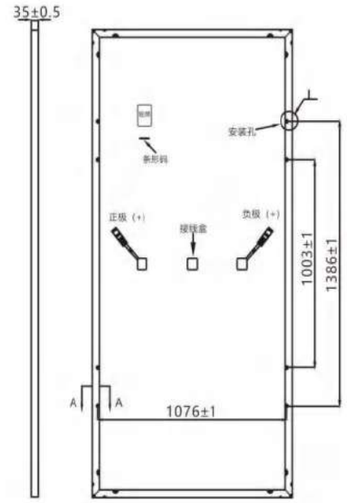
Packaging

Quantity /Pallet		30 pcs
17.5*2.8m	Truck Loading Quantity	780 pcs
13.0*2.35m	Truck Loading Quantity	660 pcs
20GP	Container	280 pcs
40HQ	Container	540 pcs

Options Available

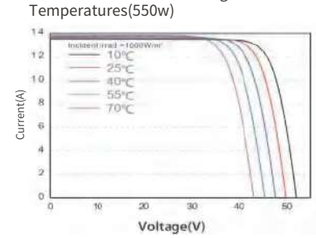
Connector	☐ Original MC4
Cable Length	☐ 1000mm ☐ 900mm
Frame	☐ Black
Module Dimension	☐ 2279x1134x40mm
Colour of Back Sheet	☐ Black ☐ Transparent

Module Dimension

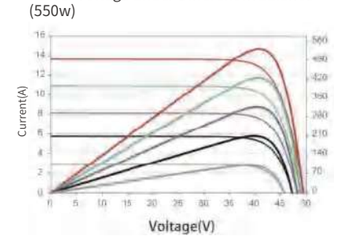


Back view

Curves of Current and Voltage at Different Temperatures(550w)



Curves of Current and Voltage/Curves of Power Voltage under Different Irradiance (550w)



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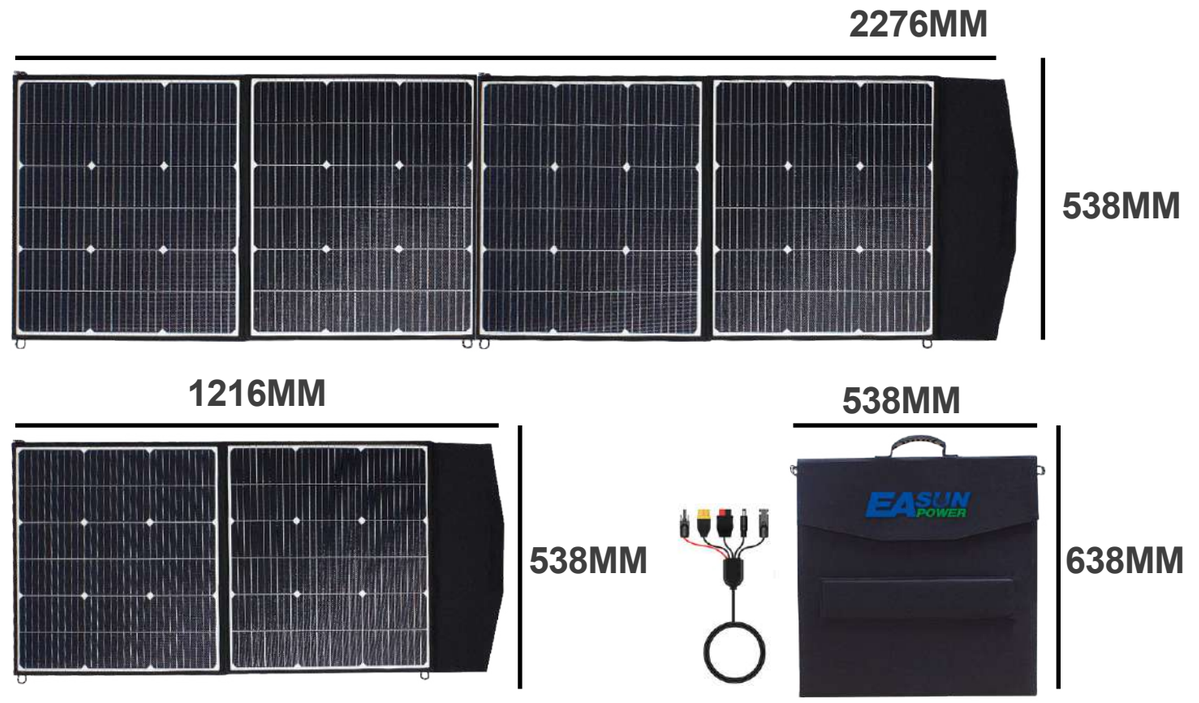
Characteristic

- 100W HIGH POWER
- WATERPROOF PET PANEL
- SUPERIOR MONOCRYSTALLINE SOLAR CELLS
- DC & PC &USB &MC4 & TYPE-C
- POLYCRYSTALLINE 18-20%, SINGLE CRYSTAL 21-23%
- 158.75*52.9MM 3*6=18 PIECES STRING

Application Scenario

Product Size



Product parameters

Photovoltaic portable charging pack	100W	200W
Number of solar panels	2pcs/ series	4pcs/2 and 2 strings
working voltage	18V	18V
working current	5.55A	11.1A
open-circuit voltage	22.5V	22.5V
short-circuit current	6.1A	12.2A
output mode	DoubleU+DC+Type-c(with dustproof rubber plug) USB/QC3.0	
power	50W/9V	
Material	PET	
battery piece	158.75*52.9mm，3 times 6 is 18 strings	
Conversion Rate	Polycrystalline 18-20%, single crystal 21-23%	
folded size	630*538*50mm Single crystal size and weight slight tolerance	
unfold size	1216*538*10mm	2276*538*10mm
Net/gross weight	4.5kg/PCS 、5.6kg/PCS	8kg/PCS 、9.3kg/PCS
packing measurements	68*24*59cm/3pcs	68*18*59cm/2pcs
packaging material	K808K(5-6mm thickness)	K808K(5-6mm thickness)

EASUN POWER
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Outdoor Power Supplu 300W 500W Portable Power Station

Features

- The fuselage is made of VO grade pure flame retardant material;
- Small, portable and highly mobile;
- Support three charging modes of mains power, photovoltaic, and car cigarette lighter interface;
- Support charging and discharging function
- Large LCD screen is used to display the remaining power, voltage, output power and other functional indicators at a glance
- Support 15W wireless charging;
- Type-c supports 100W bidirectional;
- Automatic shutdown after 60 seconds without power output;
- Support low-power charging switch long power-on mode

Application Scenario

Button introduction

3 Wsys to charge rechargeable variety

1 CHARGING FROM AC ADAPTER

2 12V CAR CHARGER

3 CHARGING FROM SOLAR

8 OUTPUTS SUPPORT TO POWER DEVICES SIMULTANEOUAL

1.Lighting/rescue lamp
2.The display
3.DC start switch
4.Quick charge QC3.0 USB output interface
5.Type two-way 65w-c interface
6.Type two-way 100w-c interface
7.12V/10A output interface
8.Lights start switch
9.AC start switch
10.12V/10A cigarette lighter output port
11.The adapter charging input interface

Product parameters

Model	PG-300W	PG-500W
product size	224*190*156 mm	
product weight	4.2kg	4.3kg
AC output voltage	110V/220V	
AC output power	300W	500W
DC output	USBQC3.018W(x2) Type-c:65W Type-c:100W 12V/10A(x3)	USBQC3.018W(x2) Type-c:65W Type-c:100W 12V/10A(x3)
Wireless charging	15W	15W
battery capacity	86400mAh/319.68Wh	129600mAh/479.52Wh
charging time	Adapter charge over 90% in 7H	Adapter charge over 90% in 10H
charging time	PD65W 5HCharge more than 90% PD100W 3.2H Charge more than 90%	PD65W 7. 5H Charge more than 90% PD100W 5H Charge more than 90%
storage temperature range	-5℃-35℃/23℉-95℉	0℃-45℃/32℉-113℉
using temperature range	0℃-45℃/32℉-113℉	-5℃-35℃/23℉-95℉
Adapter input	DC 15V/3A	DC 15V/3A
PV input power	100-400W	100-400W
On-board input	10V-30V	12V-30V
USB output	QC3.0(X2)	QC3.0(X2)
TYPE-C1	Support PD65W bidirectional	Support PD65W bidirectional
TYPE-C2	Support PD100W bidirectional	Support PD100W bidirectional
LED Light	SOS+sharp-flash	1000W
peak power	600W	1000W
output waveform	Pure wave sine	
carton size	610* 270*250mm2 sets/box	

EASUN POWER
Advancing power

PV Micro inverter

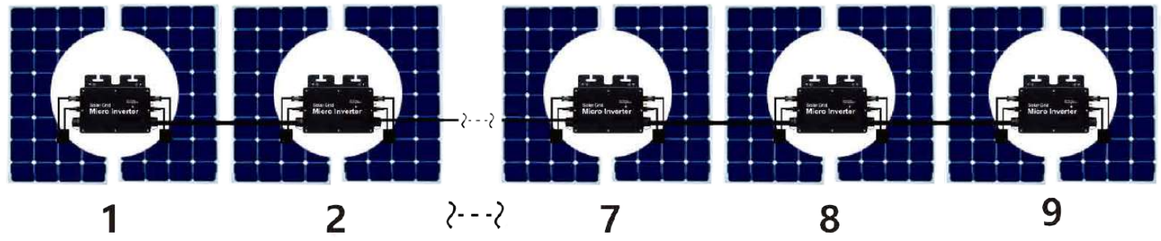
Grid-Tied/On-Grid IP65 WIFI System
GTB-400W/600W/700W/800W/1400W

Features

- Single unit connects up to two PV modules
- Maximum 400-1400W AC output power
- Single phase output,Flexible 3-phase PV system
- WIFI communication and cloud monitoring
- Up to 10 units (230V) per branch
- Customizable various input (DC,PV) voltage range
- Integrated AC bus cable, Ready-To-Use
- Low cost, Easy installation

Installation Schematic

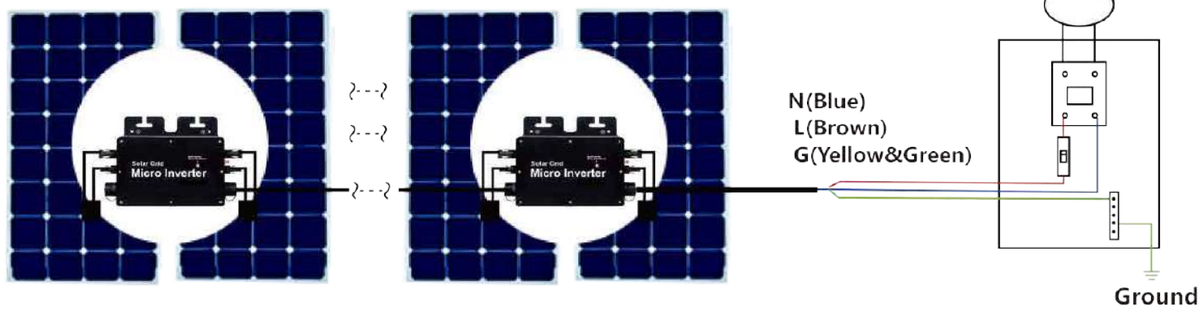
Single phase connection method of micro inverter



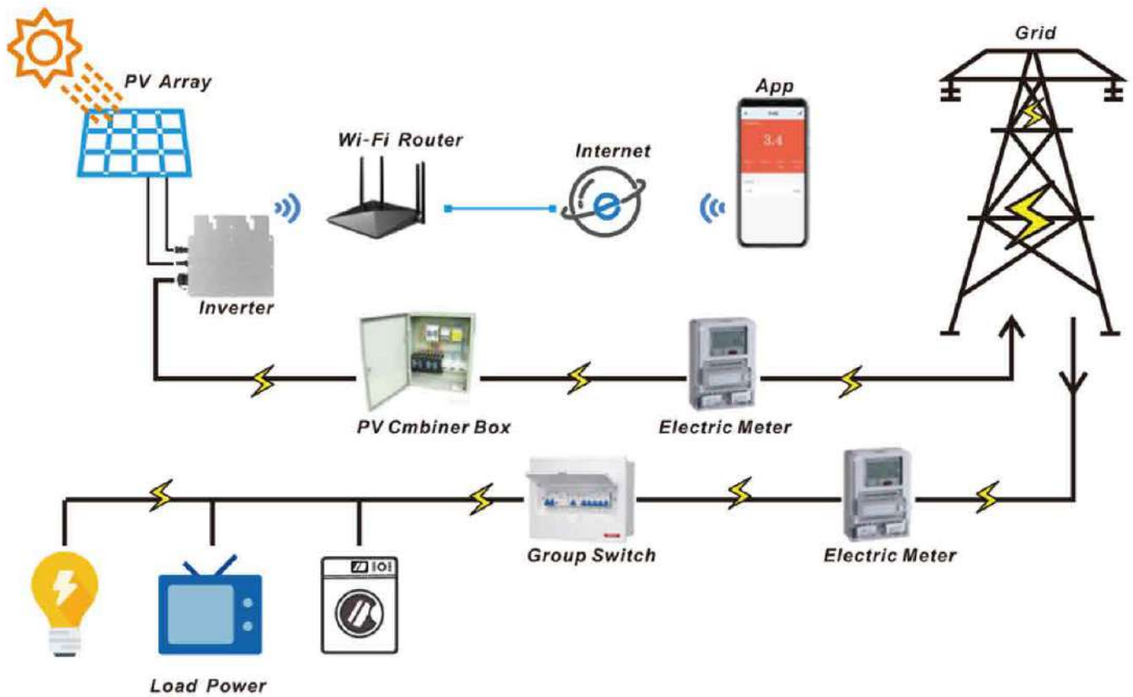
1.Inverters @Single-Phase 230V gridMaximum 8 units Microinverters per branch
2.The max DC input power of each inverter is “N”W(the PV module max output power is 2x“N”W)
3.The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.

Wiring Schematic

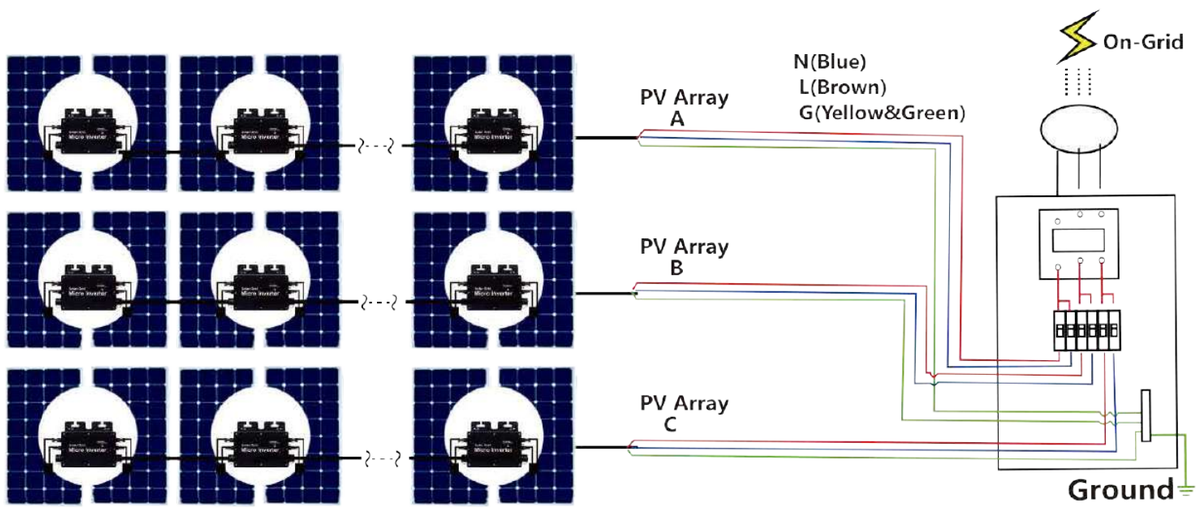
Single phase connection method of micro inverter



Structure of solar power system



Three phase connection method of micro inverter



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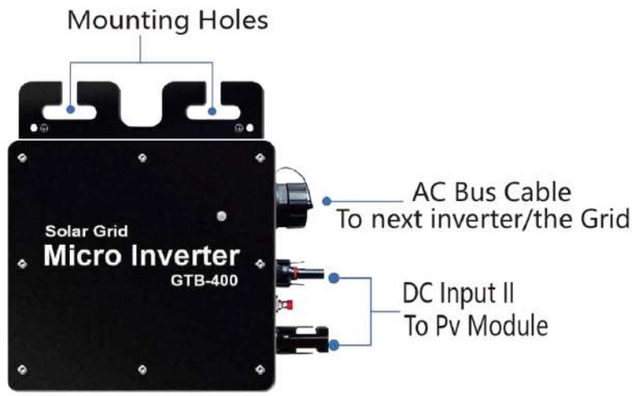
400W Micro Solar Inverter



Model: GTB-400	Size: 185x160x40mm
Max Input Power: 400W	Weight: 1.2kg
Operation Voltage Range: 20-50V	Nominal Output Frequency: 50/60HZ
Max input Curren : 12A	Waterproof Grade: IP65
Single-Phase Grid Type: 120/230V	Night Power Consumption: <1w
Max Input Voltage: 52V	Nominal MPPT Efficiency: 99.5%

600W Micro Solar Inverter

Model: GTB-600	Size: 210x195x35mm
Max Input Power: 600W	Weight: 2.45kg
Operation Voltage Range: 20-50V	Nominal Output Frequency: 50/60HZ
Max input Curren : 12A*2	Waterproof Grade: IP65
Single-Phase Grid Type: 120/230V	Night Power Consumption: <1w
Max Input Voltage: 52V	Nominal MPPT Efficiency: 99.5%

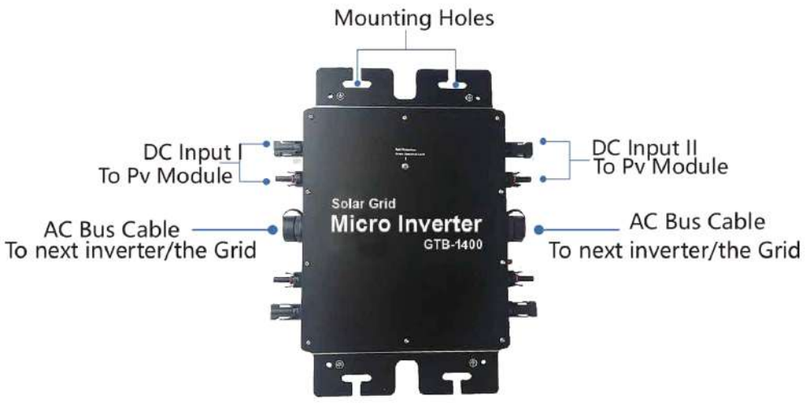
700W Micro Solar Inverter

Model: GTB-700	Size: 210x195x35mm
Max Input Power: 700W	Weight: 2.45kg
Operation Voltage Range: 20-50V	Nominal Output Frequency: 50/60HZ
Max input Curren : 12A*2	Waterproof Grade: IP65
Single-Phase Grid Type: 120/230V	Night Power Consumption: <1w
Max Input Voltage: 52V	Nominal MPPT Efficiency: 99.5%

800W Micro Solar Inverter

Model: GTB-800	Size: 230x200x40mm
Max Input Power: 800W	Weight: 2.45kg
Operation Voltage Range: 20-50V	Nominal Output Frequency: 50/60HZ
Max input Curren : 12A*2	Waterproof Grade: IP65
Single-Phase Grid Type: 120/230V	Night Power Consumption: <1w
Max Input Voltage: 52V	Nominal MPPT Efficiency: 99.5%

1400W Micro Solar Inverter

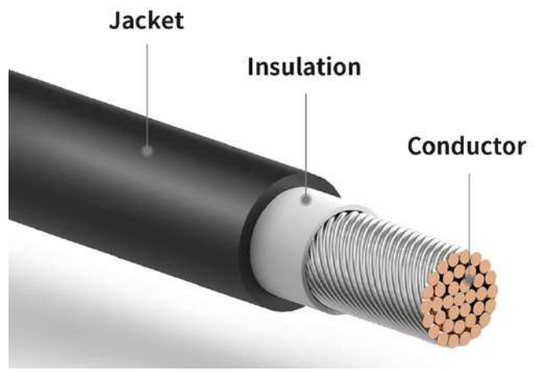


Model: GTB-1400	Size: 365x230x40mm
Max Input Power: 1400W	Weight: 3.5kg
Operation Voltage Range: 20-50V	Nominal Output Frequency: 50/60HZ
Max input Curren : 15A*2	Waterproof Grade: IP65
Single-Phase Grid Type: 120/230V	Night Power Consumption: <1w
Max Input Voltage: 52V	Nominal MPPT Efficiency: 99.5%

Detail Display

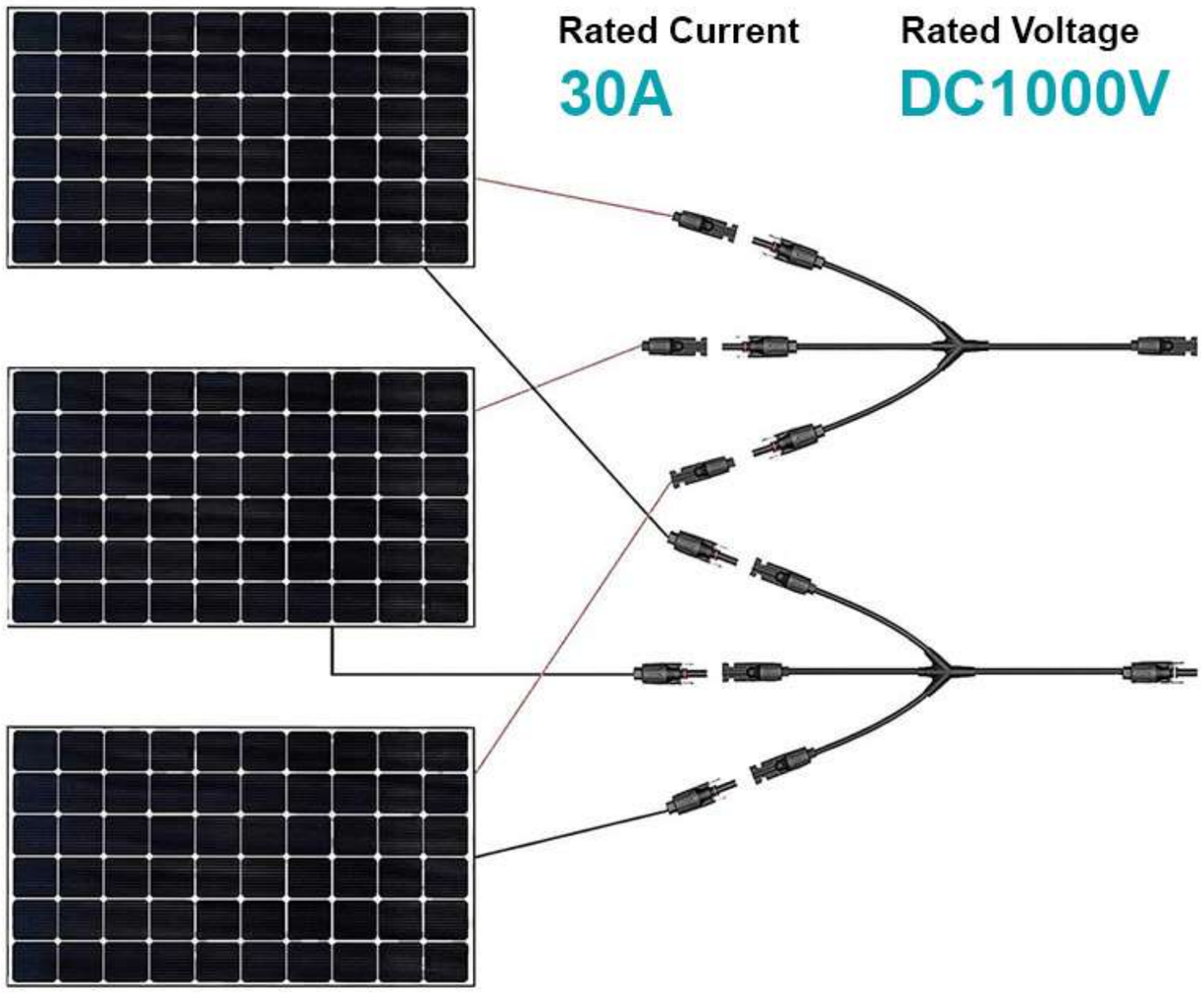
Galvanized Thickened Copper Core

PPO High Strength Material

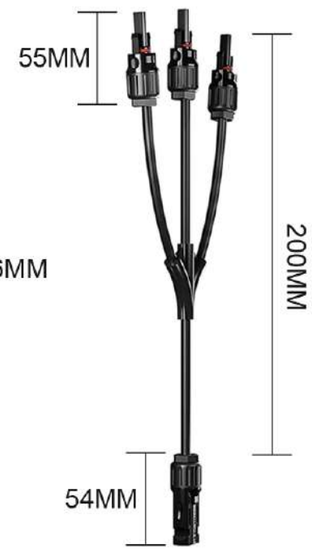


Insulating Material Against Electrical

Y Branch Parallel Adapter Solar Panel Connection

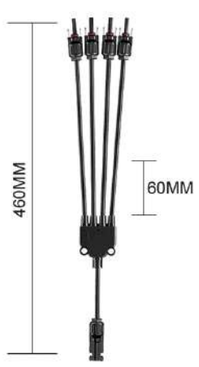


Product parameters



Insulation material	PPO	Conductor material	Copper tin plating	Rated voltage	1000V DC
Rated current	30A	Contact resistance	≤2.0mΩ	Safe class	II
Temperature range	-40°F~+200°F	Degree of protection	IP67	Flame class	UL94-V0

Insulation material	PPO	Conductor material	Copper tin plating	Rated voltage	1000V DC
Rated current	30A	Contact resistance	≤2.0mΩ	Safe class	II
Temperature range	-40°F~+200°F	Degree of protection	IP67	Flame class	UL94-V0



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