POWERING EVERYTHING EVERYWHERE WITH POWMR

PV PRODUCT CATALOG

2026

FIND AGENT

BUY EVERYWHERE

Start business with all over the world

SERVICE EVERYWHERE

Offer convenient service for all over the world

Tel:
86-755-28219903

Community:
https://community.powmr.com/

E-catalog 2026

Join us

COMPANY PROFILE

Shenzhen Hehejin Industrial Co., Ltd. is a Global Solar Energy Innovative Application Company. Over the past 10 years, we have provided related products and services to more than 150 countries around the world, and committed to pushing solar products to more application fields and scenarios. We always maintain close cooperated relationship with the world's new energy leading companies and actively participate in the coordinated development of solar energy industry. We advocate new energy life, promote the development of new energy ecological technology and protect the natural environment, so as to achieve common progress between human beings and nature.

CORE VALUE

As we know, Solar energy is a kind of environmental protection, safety, pollution-free new energy. Not only is it pollution-free, it's far cleaner than conventional energy, it's not dangerous as well. So based on this concept, PowMr slogan was born: Powering Everything, Everywhere with PowMr

We aim to develop smaller, smarter and more stable products. All our efforts are to provide customers with more perfect services, and let customers have better senses of experience. We hope to make customers could buy everywhere as well as get service everywhere.

COMPANY HISTORY

2014

Established HehejinIndustrial Led.China

Major in Solar charge controller

2015 — NOW

Core agent of EPEVER and Growatt

One of EPEVER'S largest distributors for three consecutive years

PowMr 2018

Created the PowMr brand

Developing and designing solar controllers

2019 — NOW

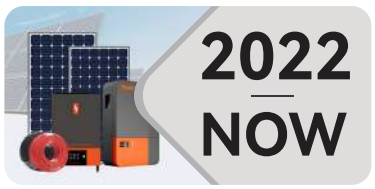
Development of solar inverters and controllers

Designed and developed the 60A MPPT solar controller with the first sales volume in the whole markets

2021 — NOW

Research and development of inverter chargers and supporting lithium battery packs

Idea of PowMr everywhere...



2022 — NOW

Solar off-grid system selected matched by PowMr professional technical engineer.

smaller safer smarter

CERTIFICATE:CE ROHS FCC ETL EMC

EMTEK

Access to the World

Certificate of Conformity

NO.: ENS220421014GS00201C

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. This is to certify that the specimen is in conformity with the assessment requirement mentioned follow. This certificate does not imply assessment to the production of the product.

Applicant	:	Shenzhen Hehejin Industrial Co., LTD
Address	:	A1001-2/Room A1001-2, 10th Floor, Buliding A , Rongde International , Huaqiao Village, Henggang Street , Longgang Distict , Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Hehejin Industrial Co., LTD
Address	:	A1001-2/Room A1001-2, 10th Floor, Buliding A , Rongde International , Huaqiao Village, Henggang Street , Longgang Distict , Shenzhen, Guangdong, China
Trade Mark	:	POWMr
EUT	:	SOLAR INVERTER
M/N	:	POW-HVM-3.5H-24V,POW-HVM-5.5H-48V, POW-HVM-5.5HP-48V
Technical Data	:	Refer to test report
Test Standards	:	EN 62109-1: 2010 EN 62109-2: 2011
Version	:	Ver.1.0

(Manager)

May 08, 2022

CERTIFICATE

CE

WHY POWMR

10

More than 10 years experience of solar related industry

150+

More than 2 million people in over 180 countries are using our products

5+

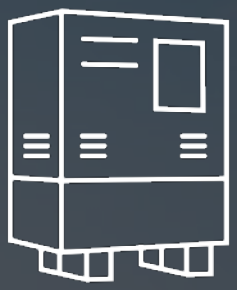
Over 5 overseas warehouse in the world and will build up more in next 3 years

30+

Cooperating with 30+ industry leading companies

CATALOG

Solar Controller



Solar Inverter

Inverter

Battery

Solar Panel

Accessories

HVM
Solar Inverter

1KW/1.5KW Output

- Supports pure sine wave inversion and bypass output.
- Max. output power up to 1500W.
- MPP tracking range between 20~150Vdc.
- Supports grid charging and solar charging.
- Max. charging current up to 80A.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.

Inverter Model	POW-HVM1K-12V	POW-HVM1.5K-24V
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz	
Efficiency	>95% (Rated R load, battery fully charged)	
Switching Time	10ms	
AC Output (Off-grid)		
Rated Output Power	1000VA/1000W	1500VA/1500W
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Peak Efficiency	94%	
Overload Protection	3s@ ≥ 150% Load; 5s@100%~150% Load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	<28W	
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	12V	24V
AC Charging & Solar Charging Mode		
Charging Algorithm	3 stages	
Max. AC Charging Current	40Amp (@VI/P=230Vac)	
Max. PV Array Power	600W	1200W
PV Array Max. Power Point Tracking Range	20~150Vdc	30~150Vdc
Max. PV Array Open Circuit Voltage	150Vdc	
Max. Charging Current (AC+PV)	80Amp	
General Parameters		
Operating Temperature Range	-10℃ ~50℃	
Storage Temperature	-15℃ ~60℃	
Dimensions	286x240x91mm	
Net Weight	3kg	3.5kg

HVM
Solar Inverter

Max. 80A Charging

- Higher output power up to 3000W.
- 30~400 Vdc wide voltage range for photovoltaic access.
- Compatible with lithium-ion and lead-acid battery.
- Maximum charging current can reach 80Amp.
- Support remote monitoring over Wi-Fi.
- Durable finish with high anti-corrosion.
- Built-in effective forced air cooling.
- No load automatic loss less than 35W.

Inverter Model	POW-HVM2H-12V-N	POW-HVM3.2H-24V-N
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50/60Hz (Auto detection)	
Efficiency	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
AC Output (Buck-Up)		
Rated Output Power	2000VA/1600W	3200VA/3000W
Output Voltage Regulation	230Vac±5% Single phase	
Output Frequency	50Hz	
Peak Efficiency	94%	
Overload Protection	5s@ ≥ 150% load; 10s@100%~150%load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	<25W	<35W
Battery Specification		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	12V	24V
AC Charge & PV Charge Mode		
Charging Algorithm	3-Stages	
Max AC Charging Current	60Amp (@VI/P=230Vac)	
Max. PV Array Power	2000W	3000W
PV Array MPPT Voltage Range	30~400Vdc	
Max. PV Array Open Circuit Voltage	400Vdc	
Max Charging Current (AC+PV)	80Amp	
General Specification		
Operation Temperature Range	-10℃ ~50℃	
Storage Temperature	-15℃ ~60℃	
Dimension	357x273x95mm	
Net Weight	4.6kg	4.8kg

HVM
Solar Inverter

Max. 120A Charging

- Higher output power up to 6200W.
- 90~500Vdc wide voltage range for photovoltaic access.
- On-grid and off-grid pure sine wave inverter.
- Compatible with lithium-ion and lead-acid battery.
- Maximum charging current can reach 120Amp.
- Support remote monitoring over Wi-Fi.
- Double load output to ensure the load power supply is stable and safe.

Inverter Model	POW-HVM4.2M-24V-N	POW-HVM6.2M-48V-N
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50/60Hz (Auto detection)	
Efficiency	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
AC Output (Buck-Up)		
Rated Output Power	4200W	6200W
Output Voltage Regulation	230Vac±5% Single phase	
Output Frequency	50Hz	
Peak Efficiency	93%	
Battery Specification		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	24V	48V
AC Charge & PV Charge Mode		
Max AC Charging Current	100Amp (@VI/P=230Vac)	
Max. PV Array Power	6200W	6500W
PV Array MPPT Voltage Range	60-450V	90-500V
Max. PV Array Open Circuit Voltage	500Vdc	
Max Charging Current (AC+PV)	120Amp	
AC Output (On-Grid)		
Nominal Output Voltage	220/230/240Vac	
Feed-in Grid Voltage	195~253Vac	
Feed-in Grid Frequency	49~51±1Hz/59~61±1Hz	
Nominal Output Current	18.2A	26.9A
General Specification		
Operation Temperature Range	-10℃ ~50℃	
Dimension	110x334x423mm	
Net Weight	9.5kg	10kg

HVM
Solar Inverter

230V Output Voltage

- Pure sine wave inverter.
- Compatible with utility grid or generator power supply.
- Dual load outputs to ensure stable and safe power delivery to connected loads.
- Supports operation with or without batteries.
- Built-in MPPT with an operating voltage range of 60–450V.
- RGB mode indicator lights to display inverter operating status.
- Equipped with lithium battery activation function.
- Intelligent fan speed control.
- Built-in multiple protection functions.

Inverter Model	POW-HVM4.2K-24V-E	POW-HVM6.2K-48V-E
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz	
Efficiency	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	4200W	6200W
Output Voltage Waveform	Pure sine wave	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Peak Efficiency	93%	
Overload Protection	3s@ ≥ 150% load; 30s@101%~150% load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	25W	50W
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	24V	48V
AC Charge & PV Charge Mode		
Charging Algorithm	3 stages	
Max. AC Charging Current	100A	
Max. PV Array Power	6200W	8000W
PV Array MPPT Voltage Range	60~450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Charging Current (AC+PV)	120A	
General Parameters		
Operation Temperature Range	-10℃ ~50℃	
Storage Temperature	-15℃ ~60℃	
Dimensions (L×W×H)	344×112×423mm	
Net Weight	7.2kg	8.2kg

HVM
Solar Inverter

4.2KW Output

- Pure sine wave inverter output.
- Supports lithium battery BMS communication.
- Maximum charging current is 100A.
- Supports up to 4000W PV array input.
- Built-in MPPT with operating voltage range of 55~500Vdc.
- Supports WiFi module for smart remote monitoring.
- RGB indicator lights show inverter operating status.
- Energy-saving mode reduces standby power consumption.
- Built-in multiple protection functions.

Inverter Model	POW-HVM4.2K-24V-D
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	230Vac
Max. AC Input Voltage	300Vac
Nominal Input Frequency	50Hz/60Hz (Auto Detection)
Transfer Time	10ms typical (UPS), 20ms typical (Appliances)
AC Output (Off-grid)	
Rated Output Power	4200VA/4200W
Output Voltage Regulation	230Vac±5%
Output Frequency	50Hz/60Hz
Peak Efficiency	94%
Surge Capacity	2*rated power for 5 seconds
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	24V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. PV Array Power	4000W
Max. PV Input Current	18A
PV Array MPPT Range	55 ~ 500Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Max. Charging Current (AC+PV)	100A
General Parameters	
Operating Temperature Range	-20℃ ~ 55℃
Storage Temperature	-20℃ ~ 60℃
Dimensions	405*305*108mm
Net Weight	6.7kg

PVS
Solar Inverter

6KW AC Output

- Pure sine wave output.
- PVS inverter is specially designed for battery-free operation.
- Equipped with three MPPTs, each supporting up to 4500 W (for 10 kW model).
- Equipped with a CT for current detection.
- 2x rated power output for 5 seconds.
- Supports WiFi module and RS232 communication.
- Smart load distribution with PV priority supply.
- Built-in dust cover.
- Intelligent fan cooling.

Inverter Model	POW-PVS-6KW	POW-PVS-10KW
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max. AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz (Auto Detection)	
Transfer Time	10ms typical (UPS)	
AC Output (Off-grid)		
Rated Output Power	6000W	10000W
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Overload Protection	3s@ ≥ 150% load; 5s@ 101%~150% load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	30W	35W
PV Input		
Max. PV Array Power	4500W*2	4500W*3
Nominal PV Voltage	250Vdc	
PV Array MPPT Voltage Range	60 ~ 450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
General Parameters		
Operating Temperature Range	-10℃ ~ 50℃	
Storage Temperature	-15℃ ~ 60℃	
Dimensions	420×345×175mm	/
Net Weight	5.1kg	/

SPH
Solar Inverter

6KW Output

- IP65 protection rating for effective dust and water resistance.
- Intelligent touchscreen display.
- Dual AC output design to accommodate a wide range of application scenarios.
- Compatible with utility grid and generator power sources.
- Supports parallel operation of up to 6 single-phase units.
- Dual MPPT inputs, with a maximum PV input of 4500W per MPPT.
- MC4 PV quick-connect terminals for plug-and-play installation.
- Supports 5 programmable time-of-use charging and discharging periods.
- Built-in Wi-Fi module supporting remote control via mobile app.
- Built-in multiple protection functions.

Inverter Model	POW-SPH-6KW
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	230Vac
Max AC Input Voltage	300Vac
Nominal Input Frequency	50Hz/60Hz
Efficiency	>95% (Rated R load, battery full charged)
Transfer Time	10ms typical
AC Output (Off-grid)	
Rated Output Power	6000W
Output Voltage Waveform	Pure sine wave
Output Voltage Regulation	230Vac±5%
Output Frequency	50Hz/60Hz
Peak Efficiency	93%
Overload Protection	3s@ ≥ 150% load; 30s@101%~150% load
Surge Capacity	2*rated power for 5 seconds
No Load Power Consumption	75W
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. PV Array Power	4500W/4500W
Max. PV Array Current	18A/18A
Operating Voltage Range	50-500Vdc
Max. PV Array Open Circuit Voltage	520Vdc
Max. AC Charging Current	135A
Max. Charging Current (AC+PV)	135A
General Parameters	
Operation Temperature Range	-10℃ ~50℃
Storage Temperature	-15℃ ~60℃
Dimensions (L×W×H)	430x228x500mm
Net Weight	23kg

HVM
Solar Inverter

6.2KW Output

- Pure sine wave inverter output.
- Supports up to 8500W PV array input.
- MPPT tracking range: 60~500Vdc.
- Supports up to 9 units in parallel, scalable up to 55.8KW.
- Dual AC output design.
- Converts 48V DC to 220V AC ±5%.
- Maximum charging current up to 120A.
- LCD display for operation status.
- Built-in multiple protection features.

Inverter Model		POW-HVM6.2KP
AC Input		
Input Voltage Waveform		Pure sine wave (Utility or Generator)
Rated Input Voltage		220/230/240Vac
Nominal Input Frequency		50Hz/60Hz (Auto detection)
Transfer Time		10ms typical (UPS); 20ms typical (Appliances)
AC Output (Off-grid)		
Rated Power	Battery Inverter Power	6200W
	PV Inverter Power	6500W
Output Voltage Regulation		220/230/240Vac±5%
Output Frequency		50Hz/60Hz±0.1%
Peak Power		12400VA
Overload Capacity		Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load
Battery Parameters		
Battery Type		Lithium and Lead Acid Battery, support user define
System Voltage		48V
AC Charging & PV Charging Mode		
Charging Algorithm		3 stages
Max. PV Array Power		8500W
Max. PV Input Current		27A
MPPT Tracking Voltage Range		60 ~ 500Vdc
Max. PV Input Voltage		500Vdc
Max. PV Charging Current		120A
Max. AC Charging Current		100A
Max. Charging Current (AC + PV)		120A
General Parameters		
Operating Temperature Range		-10℃ ~ 50℃
Storage Temperature		-15℃ ~60℃
Dimensions		510*310*120mm
Net Weight		10.65kg

ELITE
Solar Inverter

230V Output Voltage

- IP66 protection rating, suitable for outdoor use.
- Dedicated generator input port design.
- Supports single-phase 230V and three-phase 400V output.
- Intelligent touchscreen display.
- Supports Wi-Fi connectivity with remote control via mobile app.
- Compatible with 48V lithium and lead-acid battery systems.
- Supports parallel operation of up to 9 units.
- Dual MPPT inputs with an MPPT operating voltage range of 120–450Vdc.
- Supports dual AC outputs for more flexible load distribution.
- Time-of-use charging and discharging function.
- Built-in multiple protection functions.

Inverter Model	POW-ELITE6.6KW	POW-ELITE10.6KW
Parallel		
Permitted Parallel Number	1~9	
AC Input		
Input Voltage Waveform	Sinusoidal	
Input Voltage Range	90~300VAC / 170-300VAC	
Frequency Range	50Hz/60Hz (Auto sensing)	
Transfer Time	< 10ms (UPS); < 20ms (Appliances); < 50ms (Parallel system operation)	
AC Output (Off-grid)		
Rated Output Power	6600W	10600W
Rated Output Voltage	220/230/240 VAC	
Output Frequency	50Hz/60Hz	
Rated Output Current	28.7A	46.1A
Power Factor Range	>0.99	
Max. Conversion Efficiency (DC/AC)	97%	
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	48V	
AC Charging & Solar Charging Mode		
Charging Algorithm	3 stages	
Max. PV Array Power	12000W	18000W
PV Array Max. MPP Current	21A/21A	27A/27A
PV Array MPP Tracking Range	120~450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. AC Charging Current	135A	210A
Max. PV Charging Current	135A	210A
General Parameters		
Operating Temperature Range	-25℃ ~50℃	
Humidity	0~95% RH (No condensing)	
Dimensions (L × W × H)	418×192×633mm	
Net Weight	23.5kg	29kg

SunSmart Solar Inverter

8/10/12KW 230V AC Output

- Supports single-phase (230Vac) or three-phase (400Vac) output.
- Supports a maximum of 6 units in parallel, with an expansion limit of up to 72KW (for 12KW model).
- Dual MPP trackers, efficiency up to 99.9%.
- Each input current can reach 22A.
- Wide MPPT range from 200 to 650Vdc.
- Supports connection to 48V lithium batteries and lead-acid batteries.
- Max. charging current up to 260A (for 12K model).
- Supports external WiFi communication.
- Built-in multiple protection functions.

Inverter Model	POW-SunSmart 8KPL3	POW-SunSmart 10KPL3	POW-SunSmart 12KPL3
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	230Vac/400Vac（three phase）		
Input Voltage Range	Phase: 170~280Vac， Line: 305~485V		
Nominal Input Frequency	50Hz/60Hz		
Switching Time	10ms typical		
AC Output (Off-grid)			
Rated Output Power	8000W	10000W	12000W
Max. Surge Power	16000W	20000W	24000W
Output Frequency	50Hz/60Hz		
Peak Efficiency	≥ 92%		
Overload Protection	5min@102%~110% load； 10s@110%~125% load； 5s@ > 125%±10% load		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	48V		
AC Charging & Solar Charging Mode			
Charging Algorithm	3 stages		
Max. AC Charging Current	100A	120A	120A
Max. PV Array Power	6000W/6000W	7500W/7500W	9000W/9000W
PV Array MPPT Range	200~650Vdc/200~650Vdc		
Max. PV Array Open Circuit Voltage	800Vdc/800Vdc		
Max. Charging Current (AC+PV)	180Amp	220Amp	260Amp
General Parameters			
Operating Temperature Range	-10℃ ~55℃ , >45℃ derated		
Dimensions	620x445x130mm (2.03*1.46*0.43ft)		
Net Weight	27kg (59.52lb)		

Hybrid Solar Inverter

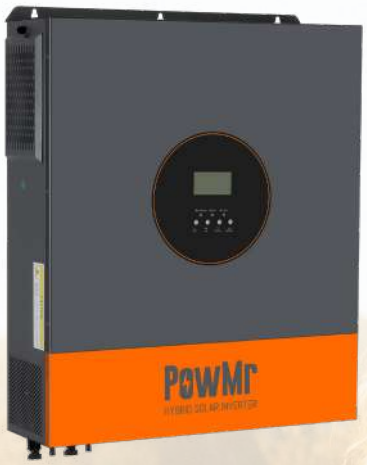
10.2KW AC Output

- On-grid and off-grid pure sine wave inverter.
- 90~500Vdc wide voltage range for PV access.
- 2 PV input, Max. solar input power up to 10200W.
- Higher output power up to 10200W.
- Compatible with 48V lithium-ion and lead-acid battery.
- Max. charging current can reach 160Amp.
- Maximum grid-tie conversion efficiency of 98%.
- Effective forced air cooling, with air speed adjustable.

Inverter Model	POW-HVM10.2M
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	230Vac
Max. AC Input Voltage	300Vac
Nominal Input Frequency	50/60Hz (Auto detection)
AC Output (Back-Up)	
Rated Output Power	10.2KW
Output Voltage Regulation	230Vac±5% Single phase
Output Frequency	50Hz
Peak Efficiency	93%
No Load Power Consumption	75W
Battery Specification	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charge & PV Charge Mode	
Max. AC Charging Current	140Amp
Max. PV Array Power	10200W
PV MPPT Voltage Range	90~500Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Max. Charging Current (AC+PV)	160Amp
AC Output (On-Grid)	
Nominal Output Voltage	220/230/240Vac
Feed-in Grid Voltage	195~253Vac
Feed-in Grid Frequency	49~51±1Hz/59~61±1Hz
Nominal Output Current	44.3A
General Specification	
Operation Temperature	-10℃ ~50℃
Communication Interface	RS232 (WiFi)
Dimension	537x390x130mm
Net Weight	14.5kg

HVM
Solar Inverter

11KW Output



- Supports single-phase/three-phase parallel operation.
- Dual AC output design.
- Dual PV inputs, each supporting up to 7500W PV input power.
- MPPT tracking range: 90~500Vdc.
- Equipped with MC4 PV quick-connect terminals for plug-and-play installation.
- Maximum charging current up to 150A.
- Configurable AC/Solar charging priority via LCD display.
- Supports up to 9 units in parallel.
- Built-in multiple protection features.

Inverter Model		POW-HVM11KP
AC Input		
Input Voltage Waveform		Pure sine wave (Utility or Generator)
Rated Input Voltage		220/230/240Vac
Nominal Input Frequency		50Hz/60Hz (Auto detection)
Transfer Time		10ms typical (UPS); 20ms typical (Appliances)
AC Output (Off-grid)		
Rated Power	Battery Inverter Power	11000W
	PV Inverter Power	12000W
Output Voltage Regulation		220/230/240Vac±5%
Output Frequency		50Hz/60Hz±0.1%
Peak Power		22000VA
Overload Capacity		Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load
Battery Parameters		
Battery Type		Lithium and Lead Acid Battery, support user define
System Voltage		48V
AC Charging & PV Charging Mode		
Charging Algorithm		3 stages
Max. PV Array Power		7500W/7500W
Max. PV Input Current		27A/27A
MPPT Tracking Voltage Range		90 ~ 500Vdc
Max. PV Input Voltage		500Vdc
Max. PV Charging Current		150A
Max. AC Charging Current		150A
Max. Charging Current (AC + PV)		150A
General Parameters		
Operating Temperature Range		-10℃ ~ 50℃
Storage Temperature		-15℃ ~60℃
Dimensions		560x490x155 mm
Net Weight		19.75kg

HV-EU
Solar Inverter

2.5KW/ 3.5KW Output

- Pure sine wave inverter output.
- Inverter output power up to 2500W/3500W.
- Suitable for converting 12VDC to 220V ± 10% AC output.
- Supports double surge output for 1 seconds.
- Built-in USB port with output up to 5V 2.4A.
- Built-in overload, short circuit, over-temperature, under-voltage, over-voltage, and reverse polarity protection.
- Equipped with a remote control panel for easy remote monitoring of data and status.

Model	POW-HV2.5K-12V-EU	POW-HV3.5K-12V-EU
System Voltage (Input Voltage)	12VDC	
Output Voltage	220VAC±10%	
Output Waveform	Pure Sine Wave	
Output Frequency	50Hz	
USB Output	5V/2.4A	
No-load Power Consumption	< 1A	< 1.5A
Surge Capacity	≤ 5000W	≤ 7000W
Efficiency	≥ 85%	
Low Voltage Warning Level	10.5±0.3V	
Low Voltage Cut-off Level	9.5±0.2V	
High Voltage Protection Level	15.5±0.5V	
Low Voltage Recovery Level	11.8±0.3V	
High Voltage Recovery Level	15.7±0.3V	
Overload Protection	120~125%	
Overtemperature Protection	> 80℃	
Operating Temperature Range	-10℃ ~+45℃	
Altitude	≤ 3000m	
Dimension	352x207x85mm	390x207x85mm
Net weight	4.18kg	5.38kg

LVM
Solar Inverter

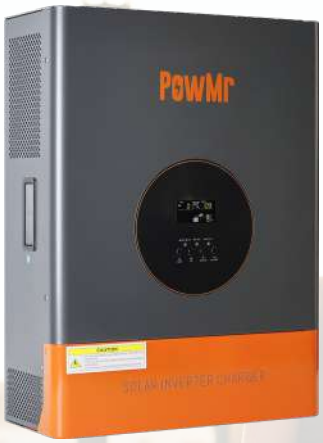
120VAC AC Output

- 2400W pure sine wave output.
- Compatible with 24V lithium and lead-acid batteries.
- Supports both utility grid and solar charging.
- The maximum PV array power is 1200W.
- Maximum charging current up to 80A.
- Supports 2× surge power output for up to 5 seconds.
- Forced-air cooling for efficient heat dissipation.
- Built-in multiple protection features.

Inverter Model	POW-LVM2.4K-24V
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Max AC Input Voltage	150Vac
Nominal Input Frequency	50Hz/60Hz
Efficiency	>95% (Rated R load, battery full charged)
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)
AC Output (Off-grid)	
Rated Output Power	3KVA/2.4KW
Output Voltage Waveform	Pure sine wave
Output Voltage Regulation	120Vac±5%
Output Frequency	60Hz
Peak Efficiency	90%
Overload Protection	5s@ ≥ 150% load; 10s@110%~150% load
Surge Capacity	2*rated power for 5 seconds
No Load Power Consumption	<20W
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	24V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
AC Charging Current	20/30Amp (@VI/P=120Vac)
Max. PV Array Power	1200W
Charging Current (PWM)	50A
Operating Voltage Range	30-32Vdc
Max. PV Array Open Circuit Voltage	80Vdc
Max. Charging Current (AC+PV)	80Amp
Battery Parameters	
Operating Temperature Range	0℃ ~55℃
Storage Temperature	-15℃ ~60℃
Dimensions (L×W×H)	272×100×355mm
Net Weight	6.9kg

RELAB-U
Solar Inverter

110Vac Low Frequency Inverter



- 3/5/10KW Pure Sine Wave Output.
- Low frequency inverter suitable for various UPS application scenarios.
- Suitable for lithium batteries or lead-acid battery energy storage systems.
- Solar charging current up to 120A.
- Intelligent energy-saving function with Eco mode.
- Built-in multiple protection functions.

Inverter Model	POW-RELAB 3KU	POW-RELAB 5KU	POW-RELAB 10KU
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	110Vac		
Input Voltage Range	77~132Vac		
Nominal Input Frequency	50Hz/60Hz		
Switching Time	≤ 10ms (UPS); ≤ 20ms (APL)		
AC Output (Off-grid)			
Rated Output Power	3000W	5000W	10000W
Peak Power	9000W	15000W	30000W
Output Frequency	50Hz/60Hz		
Peak Efficiency	>98%		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	24V	48V	
AC Charging & Solar Charging Mode			
Charging Algorithm	3 stages		
Max. AC Charging Current	38A	29A	60A
Max. PV Array Power	1600W	6400W	6400W
PV Array Max. Power Point Tracking Range	30~105Vdc	60~105Vdc	
Max. PV Array Open Circuit Voltage	105Vdc		
Max. Charging Current (AC+PV)	60Amp	120Amp	
General Parameters			
Operating Temperature	-10° C to 50° C		
Storage Temperature	-15° C to 50° C		
Dimensions	465*310*135mm	545*400*200mm	
Net Weight	19kg	27.4kg	52kg

RELAB-U-SPLIT Solar Inverter

3KW/5KW/10KW Output

- Supports pure sine wave inverter and bypass output.
- The low frequency transformer easily handles large current surges and fluctuations.
- Single unit supports single-phase 110AC, split-phase 220V, or simultaneous 110V and 220V output.
- MPP tracking range between 30~105Vdc/60~105Vdc.
- Supports grid charging and solar charging.
- Max. charging current up to 105A (for 10KW model).
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.

Inverter Model	POW-RELAB 3KU-SPLIT	POW-RELAB 5KU-SPLIT	POW-RELAB 10KU-SPLIT
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	110Vac		
AC Input Voltage Range	77~132Vac		
Nominal Input Frequency	50Hz/60Hz		
Efficiency	>95% (Rated R load, battery fully charged)		
Switching Time	<8ms		
AC Output (Off-grid)			
Rated Output Power	3000W	5000W	10000W
Peak Output Power	9000W	15000W	30000W
Output Voltage Regulation	110Vac±10%		
Output Frequency	50Hz/60Hz		
Peak Efficiency	>98%		
Surge Capacity	2*rated power for 5 seconds		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	24V	48V	48V
AC Charging & Solar Charging Mode			
Charging Algorithm	3 stages		
Max. AC Charging Current	38A	50A	105A
Max. PV Array Power	1600W	6400W	6400W
PV Array MPPT Range	30~105Vdc	60~105Vdc	60~105Vdc
Max. PV Array Open Circuit Voltage	105Vdc		
Max. PV Charging Current	60A	120A	120A
General Parameters			
Operating Temperature Range	-10℃ ~50℃		
Storage Temperature	-20℃ ~60℃		
Dimensions	465x310x135mm	545x400x200mm	545x400x200mm
Net Weight	19kg	27.4kg	50.7kg

LVM
Solar Inverter

110/120VAC

- 90~140Vac AC input voltage range.
- 120~500Vdc wide voltage range for PV access.
- Higher output power up to 5000W, output power factor of 1.0.
- Max. charging current up to 80A.
- The efficiency MPPT technology no less than 99.9%.
- Support WIFI communication module.
- Compatible with 24/48V lithium-ion and lead-acid battery.
- Intelligent variable speed fan to efficiently dissipate heat.
- Automatically enters power saving mode.

Inverter Model	POW-LVM3K-24V-H	POW-LVM5K-48V-N
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	110/120Vac	
Input Voltage Range	90Vac~140Vac	
Nominal Input Frequency	50/60Hz (Auto detection)	
Efficiency	>95%	
Transfer Time	10ms typical	
Max. Bypass Overload Current	40A	63A
AC Output (Back-Up)		
Rated Output Power	3000VA/3000W	5000VA/5000W
Output Voltage Regulation	120Vac Single phase	
Output Frequency	50Hz±0.3Hz; 60Hz±0.3Hz	
Efficiency	>92%	>90%
Overload Protection	5s@>125% load; 10s@110%~125% load; 5mins@102%~110% load	
Surge Capacity	2*rated power for 5 seconds	
Enable Power Saving Mode	Load ≤ 50W	
Battery Specification		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	24V	48V
Charging Voltage Range	20~33Vdc	40~60Vdc
AC Charge & PV Charge Mode		
Charging Algorithm	3-Stages	
Max. AC Charging Current	40Amp	
Max. PV Array Power	4000W	5500W
PV Array MPPT Voltage Range	120~400Vdc	120~450Vdc
Max. PV Array Open Circuit Voltage	450Vdc	500Vdc
Max. PV Charging Current	80Amp	
General Specification		
Operation Temperature	-10℃ ~55℃	
Storage Temperature	-25℃ ~60℃	
Communication Interface	USB/RS485(WIFI)/Dry node control	
Dimension	378x280x103mm	426x322x126mm
Net Weight	8kg	11.5kg

LVM
Solar Inverter

110/120Vac AC Output

- 3200W/3200VA Pure Sine Wave AC Output.
- Supports connection to 24V lithium batteries and lead-acid batteries.
- 30~108Vdc PV Input Voltage Range.
- Max. 1600W PV input power limit.
- Max. 100A MPPT charging.
- Forced air-cooling for efficient heat dissipation.
- Supports external Wi-Fi communication.
- Built-in multiple protections.
- Supports energy-saving mode operation.

Inverter Model	POW-LVM3.2K-24V
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	110/120Vac
Input Voltage Range	90Vac~140Vac
Nominal Input Frequency	50Hz/60Hz
Efficiency	>95% (Rated R load, battery full charged)
Switching Time	10ms typical
AC Output (Off-grid)	
Rated Output Power	3200VA/3200W
Output Voltage Regulation	120Vac±5%
Output Frequency	50Hz
Peak Efficiency	92%
Overload Protection	5min@102%~110% load; 10s@110%~125% load; 10s@ > 125%±10% load
Surge Capacity	2*rated power for 5 seconds
Enable Energy-saving Mode Threshold	Load < 50W
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	24V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. AC Charging Current	40Amp (@VI/P=120Vac)
Max. PV Array Power	1600W
PV Array Max. Power Point Tracking Range	30~90Vdc
Max. PV Array Open Circuit Voltage	108Vdc
Max. Charging Current (AC+PV)	100Amp
General Parameters	
Operating Temperature Range	-10℃ ~55℃
Storage Temperature	-25℃ ~60℃
Dimensions	378x280x103mm
Net Weight	6.8kg

LVM
Solar Inverter

120VAC AC Output

- Pure sine wave output.
- Supports battery-free operation.
- Unique glass top cover design.
- Equipped with a 6.25-inch LCD display and touch buttons.
- Built-in lithium battery automatic activation function.
- Maximum PV power up to 5600W.
- Maximum charging current up to 140A.
- PV input voltage range: 55–350Vdc.
- Built-in multiple protection functions.

Inverter Model	POW-LVM4K-24V
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Max AC Input Voltage	150Vac
Nominal Input Frequency	50Hz/60Hz
Efficiency	>95% (Rated R load, battery full charged)
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)
AC Output (Off-grid)	
Rated Output Power	4000W
Output Voltage Waveform	Pure sine wave
Output Voltage Regulation	120Vac±5%
Output Frequency	60Hz or 50Hz
Peak Efficiency	94%
Overload Protection	5s@ ≥ 150% load; 10s@110%~150% load
Surge Protection	2*rated power for 5 seconds
No Load Power Consumption	<35W
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	24V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Maximum PV Array Power	5600W
MPPT Voltage Range of PV Array	55-350Vdc
Max. PV Array Open Circuit Voltage	350Vdc
Charging Current (UPS)	110A
Max. Charging Current (AC+PV)	140A
Battery Parameters	
Operating Temperature Range	0℃ ~55℃
Storage Temperature	-15℃ ~60℃
Dimensions (L×W×H)	250×89×400mm
Net Weight	8.5kg

SunSmart Solar Inverter

110/120V AC Output

- On-grid and off-grid pure sine wave inverter.
- Compatible to both residential single & split phase equipment.
- Supports parallel connection of up to 6 units
- Higher input DC current up to 22A.
- (90~140Vac) ±2% AC input voltage range.
- 120~500Vdc wide voltage range for PV access.
- Higher output power up to 5000W.
- PV charging current up to 100A.
- The efficiency MPPT technology no less than 99.9%.
- Power saving mode available to reduce no-load loss.

Inverter Model	POW-SunSmart SP5K
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	110/120Vac
Input Voltage Range	(90~140Vac)±2%
Nominal Input Frequency	50/60Hz (Auto detection)
AC Output (Back-Up)	
Rated Output Power	5000VA/5000W
Output Voltage Regulation	120Vac Single phase or 208/240Vac Split phase
Output Frequency	50/60Hz
Max. Efficiency	>92%
Battery Specification	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charge & PV Charge Mode	
Max. AC Charging Current	40Amp
Max. PV Array Power	5500W
PV Array MPPT Voltage Range	120~450Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Max. Charging Current (AC+PV)	100Amp
Max. PV Input Current	22Amp
AC Output (On-Grid)	
Nominal Output Power	5000W
Feed-in Grid Voltage Range	120Vac
Feed-in Grid Frequency	50Hz/60Hz
General Specification	
Operation Temperature	-10℃ ~55℃
Communication Interface	RS485 (WIFI) / USB / Dry contact
Dimension	446.9x350x133mm
Net Weight	14kg

SunSmart Solar Inverter

6.5KW Output

- Supports pure sine wave inverter and bypass output.
- Max. output power up to 6500W/6500VA.
- Single unit supports single-phase 110AC, split-phase 220V, or simultaneous 110V and 220V output.
- Supports a maximum of 6 units in parallel, with an expansion limit of up to 39KW.
- Time-based charging and discharging for optimized energy use.
- MPP tracking range between 150~450Vdc.
- Dual MPPT, each input current can reach up to 18A.
- Supports grid charging and solar charging.
- Max. charging current up to 140A.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.

Inverter Model	POW-SunSmart 6.5KP
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Max. AC Input Voltage	140Vac
Nominal Input Frequency	50Hz/60Hz
Switching Time	10ms typical
Max. Bypass Overload Current	40A
AC Output (Off-grid)	
Rated Output Power	6500W
Rated output voltage	120/240 VAC (single-phase/split-phase)
Output Frequency	50Hz/60Hz
Max. Efficiency	>92%
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. AC Charging Current	80Amp (@VI/P=120Vac)
Max. PV Array Power	5000W/5000W
PV Array MPPT Range	150~450Vdc/150~450Vdc
Max. PV Array Open Circuit Voltage	550Vdc/550Vdc
Max. Input Current	18A/18A
Max. Charging Current (AC+PV)	140Amp
General Parameters	
Operating Temperature Range	-10° C – 55° C, >45° C derating
Dimensions	584.6x410x133mm
Net Weight	18.9kg

SunSmart Solar Inverter

6.5KW Output

- Smart display with touch control for easy setup.
- Maximum output power up to 6500W.
- Compatible with utility grid and generator power sources.
- Dual MPPT inputs with tracking efficiency up to 99.9%.
- MPPT operating voltage range: 150–450Vdc.
- Supports external Wi-Fi communication.
- Time-of-use charging and discharging to optimize energy utilization.
- Single unit supports single-phase 110Vac, split-phase 220Vac, or simultaneous 110Vac and 220Vac output.
- Supports parallel operation of up to 6 units.
- Compatible with 48V lithium and lead-acid battery systems.
- Built-in multiple protection functions.

Inverter Model	POW-SunSmart 6.5KP-PRO
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	65-140Vac
Nominal Input Frequency	50Hz/60Hz
Transfer Time	10ms (typical)
Bypass Overload Current	45A
AC Output (Off-grid)	
Rated Output Power	6500W
Max. Peak Power	13000VA
Output Voltage Waveform	Pure sine wave
Rated Output Voltage	120/240VAC (single-phase/split-phase)
Output Frequency	50Hz/60Hz
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Maximum PV Array Power	5000W/5000W
Maximum PV Array Current	18A/18A
MPPT Voltage Range of PV Array	150~450Vdc/150~450Vdc
Max. PV Array Open Circuit Voltage	550Vdc/550Vdc
Max. AC Charging Current	80Amp
Max. Charging Current (AC+PV)	140Amp
General Parameters	
Operating Temperature Range	-10° C~55° C, >45° C derated
Dimensions (L×W×H)	419*133*553mm
Net Weight	18.7kg

SunSmart Solar Inverter

Grid-tie compatible

- Supports per-phase output of 100/105/110/120/127Vac.
- All-in-one interface design for generator, microinverter, and smart loads.
- Maximum charging current up to 140A.
- Dual MPPT inputs, each supporting PV arrays up to 600Vdc/6600W.
- Built-in circuit breaker.
- Supports grid-tied operation.
- IP65 protection rating, suitable for outdoor installation.
- Color LCD touchscreen with a clear and intuitive user interface.
- Supports parallel operation of up to 6 units, with 240V split-phase and 208V three-phase output.
- Integrated PLC supporting compliant shutdown and restart.
- Aluminum heat sink combined with triple-fan design for efficient heat dissipation.

Inverter Model	POW-SunSmart LVM6.5K
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	65-140Vac
Nominal Input Frequency	50Hz/60Hz
Max. Bypass Overload Current	60A
AC Output (Off-grid)	
Rated Output Power	@240V 6500W
Output Voltage Waveform	Pure sine wave
Max. Peak Power	2*rated power for 10 seconds
Rated Output Voltage	120/240Vac (Split-phase); 120/208V (Three-phase)
Output Frequency	50Hz/60Hz
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
Charging Voltage Range	40~60V
AC Charge & PV Charge Mode	
Charging Algorithm	3 stages
Max. PV Array Power	6600W/6600W
Max. Input Current	32A/32A
PV Array MPPT Voltage Range	120~500Vdc/120~500Vdc
Max. PV Array Open Circuit Voltage	600Vdc/600Vdc
Max. AC Charging Current	140Amp
Max. Charging Current (AC+PV)	140Amp
General Parameters	
IP Class	IP65
Operation Temperature Range	-40~60℃ , >45℃ derated
Communication interface	RS485/CAN/USB/Dry Contact
Dimensions (L×W×H)	400*250*760mm
Net Weight	42kg

SunSmart Solar Inverter

10KW 120Vac AC Output

- Supports up to 6 parallel units.
- 90~140Vac AC input voltage range.
- 125~500Vdc wide voltage range for PV access.
- Higher input DC current up to 22A in a single circuit.
- Compatible to both residential single phase & split phase equipment.
- Higher output power up to 10000W.
- 2 MPP Tracker, dual MPPT with 99.9% efficiency.
- Compatible with 48V lithium-ion and lead-acid battery.
- Compliance with IEC and UL grid standards.
- Higher MPPT charging current up to 200A.
- Energy saving mode function to reduce no-load energy losses.

Inverter Model	POW-SunSmart 10KP
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	90~140Vac
Nominal Input Frequency	50/60Hz
Transfer Time	10ms typical
Max. Bypass Overload Current	63A
AC Output (Back-Up)	
Rated Output Power	10000W
Output Voltage Regulation	120Vac/240Vac Single phase/Split phase
Output Frequency	50/60Hz
Max. Battery Inverter Efficiency	92%
Overload Protection	5s@ > 125% load; 10s@110%~125%load; 5mins@102%~110%load
Load Capacity of Motors	6HP
Battery Specification	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
Charging Voltage Range	40~60V
AC Charge & PV Charge Mode	
Charging Algorithm	3-Stages
Max. AC Charging Current	120Amp
Max. PV Array Power	11000W
PV Array MPPT Voltage Range	125~425Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Max. Charging Current (AC+PV)	200Amp
General Specification	
Operation Temperature Range	-10℃ ~55℃ , >45℃ derated (-14~131 ℉ ; 113 ℉ derated)
Communication interface	RS485 (WIFI) / CAN / USB / Dry contact
Dimension	620x445x130mm (2x1.5x0.4ft)
Net Weight	27kg (59.5lb)

SunSmart Solar Inverter

120Vac/240Vac AC Output

- Supports single-phase and split-phase pure sine wave output.
- Smart display with touch control for easy setup.
- Compatible with 48V lithium and lead-acid batteries.
- Dual activation function: lithium-ion batteries can be activated via grid or PV input.
- Time-of-use charging and discharging to optimize energy utilization.
- Supports parallel operation of up to 6 units, expandable to 60kW system capacity.
- Dual MPPT inputs with an MPPT operating voltage range of 125–425Vdc.
- Maximum charging current up to 200A.
- Energy-saving mode to reduce no-load power consumption.
- Forced air cooling for efficient heat dissipation.
- Built-in multiple protection functions.

Inverter Model	POW-SunSmart 10KP-PRO
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	90-140Vac
Nominal Input Frequency	50Hz/60Hz
Transfer Time	10ms typical
Bypass Overload Current	63A
AC Output (Off-grid)	
Rated Output Power	10000W
Max. Peak Power	20000VA
Output Voltage Waveform	Pure sine wave
Rated Output Voltage	120/240Vac (single-phase/split-phase)
Output Frequency	50Hz/60Hz
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. PV Array Power	5500W/5500W
Max. Input Current	22A/22A
PV Array MPPT Voltage Range	125~425Vdc/125~425Vdc
Max. PV Array Open Circuit Voltage	500Vdc/500Vdc
Max. AC Charging Current	120Amp
Max. Charging Current (AC+PV)	200Amp
General Parameters	
Operation Temperature Range	-10° C~55° C, >45° C derated
Dimensions (L×W×H)	445*133*652mm
Net Weight	27kg

SunSmart Solar Inverter

120Vac/240Vac AC Output

- Supports 12000W pure sine wave output.
- Supports parallel operation of up to 6 units, with power expandable to 72kW.
- Split-phase 120V/240V output and three-phase 120V/208V output.
- Dual MPPT with tracking efficiency up to 99.9%.
- MPPT operating voltage range: 125–425Vdc.
- Compatible with 48V lithium and lead-acid battery systems.
- Maximum charging current up to 200A.
- Time-of-use charging and discharging to optimize energy utilization.
- Energy-saving mode to reduce no-load power consumption.
- Forced air cooling for efficient heat dissipation.

Inverter Model	POW-SunSmart 12KP
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	90-140Vac
Nominal Input Frequency	50Hz/60Hz
Transfer Time	10ms typical
Max. Bypass Overload Current	63A
AC Output (Off-grid)	
Rated Output Power	12000W
Max. Peak Power	24000W
Output Voltage Waveform	Pure sine wave
Rated Output Voltage	120/240Vac (single-phase/split-phase)
Output Frequency	50Hz/60Hz
Overload Protection	5s@>125% load; 10s@110%~125% load; 5min@102%~110% load
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
Charging Voltage Range	40~60V
AC Charge & PV Charge Mode	
Charging Algorithm	3 stages
Max. PV Array Power	6600W/6600W
Max. Input Current	22A/22A
PV Array MPPT Voltage Range	125~425Vdc/125~425Vdc
Max. PV Array Open Circuit Voltage	500Vdc/500Vdc
Max. AC Charging Current	120A
Max. Charging Current (AC+PV)	200A
General Parameters	
Operation Temperature Range	-10℃ ~55℃
Communication interface	RS485/CAN/USB/Dry Contact
Dimensions (L×W×H)	445×130×620mm
Net Weight	27kg

SunSmart Solar Inverter

120Vac/240Vac AC Output

- Smart display with touch control for easy setup.
- Supports parallel operation of up to 6 units, with power expandable to 72kW.
- Supports per-phase output of 100/105/110 /115/120/127 Vac.
- Dual activation function: lithium-ion batteries can be activated via grid or PV input.
- Dual MPPT inputs with an MPPT operating voltage range of 125–425Vdc.
- Supports external Wi-Fi communication.
- Compatible with 48V lithium and lead-acid battery systems.
- Maximum charging current up to 200A.
- Time-of-use charging and discharging to optimize energy utilization.
- Forced air cooling for efficient heat dissipation.
- Built-in multiple protection functions.

Inverter Model	POW-SunSmart 12KP-PRO
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	90-140Vac
Nominal Input Frequency	50Hz/60Hz
Transfer Time	10ms typical
Max. Bypass Overload Current	63A
AC Output (Off-grid)	
Rated Output Power	12000W
Max. Peak Power	24000W
Output Voltage Waveform	Pure sine wave
Rated Output Voltage	120/240Vac (single-phase/split-phase)
Output Frequency	50Hz/60Hz
Battery Parameters	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
AC Charge & PV Charge Mode	
Charging Algorithm	3 stages
Max. PV Array Power	6600W/6600W
Max. Input Current	22A/22A
PV Array MPPT Voltage Range	125~425Vdc/125~425Vdc
Max. PV Array Open Circuit Voltage	500Vdc/500Vdc
Max. AC Charging Current	120A
Max. Charging Current (AC+PV)	200A
General Parameters	
Operation Temperature Range	-10° C~55° C, >45° C derated
Dimensions (L×W×H)	445*133*652mm
Net Weight	27kg

SunSmart Solar Inverter

Grid-tie compatible

- Supports 100/105/110/115/120/127 Vac output per phase.
- Supports split-phase 240 V and three-phase 208 V output.
- Dual MPPTs, each supporting up to 550 Vdc / 6600 W PV array.
- Grid-tie compatible.
- IP65-rated for outdoor use.
- Smart touch display.
- Built-in circuit breaker.
- Supports up to 6 units in parallel, scalable to 72 kW.
- Integrated PLC enables compliant shutdown and recovery.
- Efficient cooling with heatsink and fan.

Inverter Model	POW-SunSmart LVM12K
Parallel	
Permitted Parallel Number	1~6
AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	120Vac
Input Voltage Range	90~140Vac
Nominal Input Frequency	50Hz/60Hz
Max. Bypass Overload Current	63A
AC Output	
Rated Output Power	@240V 12000W @208V 10400W
Max. Peak Power	2 times rated power
Rated Output Voltage	120/240Vac (Split-phase); 120/208V (Three-phase)
Output Frequency	50Hz/60Hz
Load Capacity of Motors	6HP
Battery Specification	
Battery Type	Lithium and Lead Acid Battery, support user define
System Voltage	48V
Charging Voltage Range	40~60V
AC Charge & PV Charge Mode	
Charging Algorithm	3-Stages
Max. AC Charging Current	120Amp
Max. PV Array Power	6600W/6600W
Max. Input Current	25A/25A
PV Array MPPT Voltage Range	125~450Vdc/125~450Vdc
Max. PV Array Open Circuit Voltage	550Vdc/550Vdc
Max. Charging Current (AC+PV)	200Amp
General Specification	
IP Class	IP65
Operation Temperature Range	-25~60℃ , >45℃ derated (-13~140 ℉ ; 113 ℉ derated)
Communication interface	RS485 (WIFI) / CAN / USB / Dry contact
Dimension	750x440x240mm (2.46×1.44×0.79 ft)
Net Weight	42kg (92.6lb)

LV
Solar Inverter

2.5KW/ 3.5KW Output

- Pure sine wave inverter output.
- Inverter output power up to 2500W/3500W.
- AC output is equipped with both socket ports and terminal ports.
- Suitable for converting 12/24VDC to 110V ± 10% AC output.
- Integrated display shows operating status.
- Built-in USB port with output up to 5V 2.4A.
- Built-in multiple protection functions.
- Equipped with a remote control panel for easy remote monitoring of data and status.

Inverter Model	POW-LV2.5K -12V	POW-LV2.5K -24V	POW-LV3.5K -12V	POW-LV3.5K -24V
System Voltage (Input Voltage)	12VDC	24VDC	12VDC	24VDC
Output Voltage	110VAC±10%			
Output Waveform	Pure Sine Wave			
Output Frequency	50Hz±1%/60Hz±1%			
USB Output	5V/2.4A			
No-load Power Consumption	< 1A			
Surge Capacity	≤ 5000W(<5ms)			
Efficiency	≥ 85%			
Low Voltage Warning Level	10.5±0.3V	21±0.6V	10.5±0.3V	21±0.6V
Low Voltage Cut-off Level	9.5±0.2V	19±0.3V	9.5±0.2V	19±0.3V
High Voltage Protection Level	15.5±0.5V	31±1V	15.5±0.5V	31±1V
Low Voltage Recovery Level	11.8±0.3V	23.6±0.4V	11.8±0.3V	23.6±0.4V
High Voltage Recovery Level	15.7±0.3V	31.8±0.4V	15.7±0.3V	31.8±0.4V
Overload Protection	120~125%			
Overtemperature Protection	> 80℃			
Operating Temperature Range	-25℃ ~+55℃			
Altitude	≤ 3000m			
Dimension (LxWxH)	350x206x86mm	350x206x86mm	352x207x85mm	390x207x85mm
Net weight	~4.2kg	~4.2kg	~5.4kg	~5.4kg

Energy storage LiFePO4 Battery

30/50Ah 12.8V

- A wide range of battery models to meet diverse capacity needs.
- Supports both series and parallel connections.
- Retains lead-acid design with upgraded lithium battery inside.
- 3000/4000 cycle lifespan.
- Higher energy density compared to lead-acid batteries, with a smaller size and lighter weight.
- Simple and user-friendly installation.
- Ideal upgrade for lead-acid battery storage systems.
- Compact size, lightweight, improved space utilization.

Battery Models		POW-30AH-12.8V	POW-50AH-12.8V
Battery Specifications			
Battery Type		LiFePO4 Battery	
Nominal Voltage		12.8V	
Rated Capacity		30AH	50AH
Rated Energy		384Wh	640Wh
Operating Voltage Range		10.8~14.4V	10.8~14.4V
Charging Voltage		14.4V	14.4V
Max. Charging Current		30A	50A
Max. Discharging Current		30A	50A
Max. No. of Series Connections		4 PCS	4 PCS
Max. No. of Parallel Connections		4 PCS	4 PCS
General Parameters			
Cycle Life		3000 times (0.2C,25° C@80% DOD)	4000 times (0.2C,25° C@80% DOD)
Casing Material		ABS	
Operating Temperature	Charging	0℃ ~60℃	0℃ ~60℃
	Discharging	-10℃ ~60℃	-10℃ ~60℃
Storage Temperature		-30℃ ~50℃	-30℃ ~50℃
Dimension		165x120x182mm	228x138x226mm
Net Weight		4kg	6kg

Energy storage LiFePO4 Battery

100~150Ah 12.8V

- A wide range of battery models to meet diverse capacity needs.
- Supports both series and parallel connections.
- Retains lead-acid design with upgraded lithium battery inside .
- 6000 cycle lifespan.
- Compact size, lightweight, improved space utilization.
- Simple and user-friendly installation.

Battery Model		POW-100AH-12.8V-MINI	POW-100AH-12.8V	POW-150AH-12.8V
Battery Specifications				
Battery Type		LiFePO4 battery		
Nominal Voltage		12.8V		
Rated Capacity		100AH	100AH	150AH
Rated Energy		1280Wh	1280Wh	1920Wh
Operating Voltage Range		10.8~14.6V	10.8~14.6V	10.8~14.6V
Charging Voltage		14V	14.6V	14.6V
Max. Charging Current		100A	100A	100A
Max. Discharging Current		100A	100A	100A
Max. No. of Series Connections		4 PCS	4 PCS	4 PCS
Max. No. of Parallel Connections		4 PCS	4 PCS	4 PCS
General Parameters				
Cycle Life		6000 times（0.2C，25° C@80% DOD）		
Casing Material		ABS		
Operation Temperature	Charging	0℃ ~55℃	0℃ ~55℃	0℃ ~55℃
	Discharging	-20℃ ~55℃	-20℃ ~55℃	-20℃ ~55℃
Dimension		260x169x211mm	325x170x215mm	330x171x215mm
Net Weight		10kg	11.5kg	15kg

Metal Casing LiFePO4 Battery

100/300Ah 12.8V

- High-quality $LiFePO_4$ cells.
- Over 6000 charge/discharge cycles.
- Supports 100A/200A charge/discharge current.
- Up to 4S4P system expansion.
- Built-in smart Battery Management System (BMS).
- Integrated intelligent balancing module.
- Metal casing for enhanced protection and heat dissipation.
- Top-mounted voltage display for real-time monitoring.

Battery Model	POW-100AH-12.8V-T	POW-300AH-12.8V-T
Battery Specifications		
Battery Type	LiFePO4 battery	
Nominal Voltage	12.8V	
Rated Capacity	100AH	300Vac
Rated Energy	1280Wh	3840Wh
Operating Voltage Range	10.8~14.6V	10.8~14.6V
Charging Voltage	14.4V	14.4V
Max. Charging Current	100A	200A
Max. Discharging Current	100A	200A
Max. No. of Series Connections	4 PCS	4 PCS
Max. No. of Parallel Connections	4 PCS	4 PCS
General Parameters		
Cycle Life	6000 times（0.2C，25° C@80% DOD）	
Casing Material	Metal	
Operation Temperature	-20℃ ~55℃	
Dimension	330×114×214mm	360×159×305mm
Net Weight	10kg	26kg

Energy storage LiFePO4 Battery

200/300Ah 12.8V

- A wide range of battery models to meet diverse capacity needs.
- Supports both series and parallel connections.
- Retains lead-acid design with upgraded lithium battery inside
- 6000 cycle lifespan.
- Compact size, lightweight, improved space utilization.
- Simple and user-friendly installation.

Battery Model		POW-200AH-12.8V	POW-300AH-12.8V
Battery Specifications			
Battery Type		LiFePO4 battery	
Nominal Voltage		12.8V	12.8V
Rated Capacity		200AH	300AH
Rated Energy		2560Wh	3840Wh
Operating Voltage Range		10.8~14.6V	10.8~14.6V
Charging Voltage		14V	14.6V
Max. Charging Current		200A	200A
Max. Discharging Current		200A	200A
Max. No. of Series Connections		4 PCS	4 PCS
Max. No. of Parallel Connections		4 PCS	4 PCS
General Parameters			
Cycle Life		6000 times（0.2C，25° C@80% DOD）	
Casing Material		ABS	
Operation Temperature	Charging	0℃ ~55℃	0℃ ~45℃
	Discharging	-20℃ ~55℃	-20℃ ~60℃
Dimension		485x170x240mm	522x240x218mm
Net Weight		19kg	30kg

Energy storage LiFePO4 Battery

100/200Ah 25.6V

- A wide range of battery models to meet diverse capacity needs.
- Supports both series and parallel connections.
- Retains lead-acid design with upgraded lithium battery inside.
- 6000 cycle lifespan.
- Compact size, lightweight, improved space utilization.
- Simple and user-friendly installation.

Battery Model		POW-100AH-25.6V	POW-200AH-25.6V
Battery Specifications			
Battery Type		LiFePO4 Battery	
Nominal Voltage		25.6V	
Rated Capacity		100AH	200AH
Rated Energy		2560Wh	5120Wh
Operating Voltage Range		21.6~29.2V	21.6~29.2V
Charging Voltage		29.2V	29.2V
Max. Charging Current		100A	100A
Max. Discharging Current		100A	200A
Max. No. of Series Connections		2 PCS	2 PCS
Max. No. of Parallel Connections		2 PCS	2 PCS
General Parameters			
Cycle Life		6000 times（0.2C, 25° C@80% DOD）	6000 times（0.2C, 25° C@80% DOD）
Casing Material		ABS	
Operation Temperature	Charging	0℃ ~45℃	0℃ ~55℃
	Discharging	-20℃ ~60℃	-20℃ ~60℃
Dimension		485x170x240mm	532x207x215mm
Net Weight		21kg	38kg

Wall-mounted Lithium Iron Phosphate

100AH~200AH

- Supports up to 16 units in parallel.
- Grade A+ battery cells.
- Sustains output of 150A high current.
- Built-in intelligent battery management system for protection.
- High-quality components ensure excellent quality, with a 5-year warranty promise.
- 80% depth of discharge, with a charging cycle life of up to 6000 times.
- Peripheral low-voltage switch reduces power consumption.
- Comprehensive protection functions.

Battery Model	POW-LIO48100-16S	POW-LIO48200-16S
System Voltage	51.2V	
Capacity	100Ah	200Ah
Nominal Energy	5.12KWh	10.24KWh
Constant Voltage charging Voltage	58.4V	
Max. Discharge Cutoff Voltage	43.2V	
Recommended Discharge Cutoff Voltage	48V	
Max. Charging Current	100A	150A
Max. Discharge Current	100A	150A
Max. Parallel Connection of Batteries	16	
Communication Interface	RS232/RS485/CAN/Dry Contact	
Cycle Life	≥ 6000 Times @80%DOD, 25℃	
Operating Temp	Charging: 0~60° C; Discharging: -10° C~65° C	
Nominal Operation Altitude	< 2000m	
Nominal Operation Humidity	<90%RH	
IP Grade	IP21	
Recommended Operation Environment	Indoor	
Battery Dimensions (LxWxH)	550x470x202mm	700x630x170mm
Net Weight	44kg	87kg

BMS communication protocol matching			
PowMr	SMA	victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH	Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye	MEGAREVO	MUST美世乐
SRNE硕日			

Wall-mounted LiFePO4 Battery

100AH Rated Capacity

- High-Current 2A Active Balancing Technology.
- IP65 protection rating, suitable for a wide range of indoor and outdoor applications.
- Built-in battery circuit breaker.
- Supports parallel operation of up to 16 units.
- A+ grade battery cells.
- Built-in BMS to ensure safe and efficient system operation.
- Supports remote monitoring via host system.
- Easy communication with most inverter brands.
- 80% depth of discharge (DoD) with a cycle life of up to 6000 cycles.
- Comprehensive protection functions.

Battery Model	POW-LIO48100-IP65
System Voltage	51.2V
Capacity	100Ah
Nominal Energy	5.12kWh
Constant Voltage Charging Voltage	58.4V
Max. Discharging Cutoff Current	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	100A
Max. Discharging Current	100A
Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contact
Cycle Life	≥ 6000 Times @80%DOD, 25℃
Operating Temperature	Charging: 0~60° C; Discharging: -10° C~65° C
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP65
Recommended Operation Environment	Indoor/outdoor
Dimension (L×W×H)	450*180*700mm
Net Weight	~53.5kg
BMS communication protocol matching	
PowMr	SMA
victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH
Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye
MEGAREVO	MUST美世乐
SRNE硕日	

Stacked LiFePO4 Battery

100AH Rated Capacity

- Maximum charging current of 100A.
- Supports parallel operation of up to 16 units.
- A+ grade battery cells.
- Built-in BMS to ensure safe and efficient system operation.
- Easy communication with most inverter brands.
- Supports remote monitoring via host system.
- 80% depth of discharge (DoD) with a cycle life of up to 6000 cycles.
- Comprehensive protection functions.

Battery Model	POW-LIO48100-3.5U
System Voltage	51.2V
Capacity	100Ah
Nominal Energy	5.12kWh
Constant Voltage Charging Voltage	57.6V
Max. Discharging Cutoff Current	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	100A
Max. Discharging Current	100A
Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contact
Cycle Life	≥ 6000 Times @80%DOD, 25℃
Operating Temperature	Charging: 0~55° C; Discharging: -10° C~60° C
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP21
Recommended Operation Environment	Indoor
Dimension (L×W×H)	480×440×155mm
Net Weight	~43kg

BMS communication protocol matching

PowMr	SMA	victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH	Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye	MEGAREVO	MUST美世乐
SRNE硕日			

Floor-standing LiFePO4 Battery

316Ah Rated Capacity

- No installation required.
- The Foma casters wheels at the bottom of the battery are durable and flexible.
- Supports up to 16 units in parallel.
- 200A charge/discharge current.
- Built-in BMS ensures safe and efficient system operation.
- Smart touchscreen facilitates monitoring battery data.
- 6000 cycle lifespan.
- Comprehensive protection functions.
- Easily compatible with communication protocols of most inverter brands.

Battery Model	POW-LIO48300-16S
System Voltage	51.2V
Capacity	316Ah
Nominal Energy	16.179kWh
Constant Voltage Charging Voltage	58.4V
Max. Discharging Cutoff Current	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	200A
Max. Discharging Current	200A
Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contact
Cycle Life	≥ 6000 Times @80%DOD,25° C
Operating Temperature	Charging:0~60℃ ; Discharging: -10℃ ~ 65℃
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP21
Recommended Operation Environment	Indoor
Dimension	680*650*235mm
Net Weight	110kg

BMS communication protocol matching

POWMR	SMA	victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH	Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye	MEGAREVO	MUST美世乐
SRNE硕日			

Floor-standing LiFePO4 Battery

316AH Rated Capacity

- High-Current 2A Active Balancing Technology.
- IP65 protection rating, suitable for a wide range of indoor and outdoor applications.
- Built-in battery circuit breaker.
- Equipped with Foma wheels for easy mobility and installation.
- Maximum charging current up to 200A.
- Supports parallel operation of up to 16 units.
- Built-in BMS to ensure safe and efficient system operation.
- Supports remote monitoring via host system.
- Easy communication with most inverter brands.
- 80% depth of discharge (DoD) with a cycle life of up to 6000 cycles.
- Comprehensive protection functions.

Battery Model	POW-LIO48300-IP65
System Voltage	51.2V
Capacity	316Ah
Nominal Energy	16.18kWh
Constant Voltage Charging Voltage	58.4V
Max. Discharging Cutoff Current	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	200A
Max. Discharging Current	200A
Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contact
Cycle Life	≥ 6000 Times @80%DOD, 25℃
Operating Temperature	Charging: 0~60° C; Discharging: -10° C~65° C
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP65
Recommended Operation Environment	Indoor/outdoor
Dimension (L×W×H)	520*250*880mm
Net Weight	~131kg

BMS communication protocol matching

PowMr	SMA	victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH	Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye	MEGAREVO	MUST美世乐
SRNE硕日			

Floor-standing LiFePO4 Battery

316Ah Rated Capacity

- Equipped with Foma wheels for easy mobility and installation.
- Supports parallel operation of up to 16 units.
- Built-in BMS to ensure safe and efficient system operation.
- Intelligent touchscreen for convenient monitoring of battery data.
- Cycle life of up to 6000 cycles.
- Supports remote monitoring via host system.
- High-quality battery cells to ensure high performance and stability.
- Easy compatibility and communication with most inverter brands.
- Comprehensive protection functions.

Battery Model	POW-LIO48316-16S
System Voltage	51.2V
Capacity	316Ah
Nominal Energy	16.179KWh
Constant Voltage Charging Voltage	58.4V
Max. Discharging Cutoff Current	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	200A
Max. Discharging Current	200A
Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contact
Cycle Life	≥ 6000 Times @80%DOD, 25℃
Operating Temperature	Charging: 0~60° C; Discharging: -10° C~65° C
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP21
Recommended Operation Environment	Indoor
Dimension (L×W×H)	235*650*680mm
Net Weight	110kg
BMS communication protocol matching	
PowMr	SMA
victron energy BLUE POWER	GROWATT 古瑞瓦特
GOODWE	PYLONTECH
Voltronic Power Advancing Power	SOFAR SOLAR
LUXPOWER	Deye
MEGAREVO	MUST美世乐
SRNE硕日	

High-voltage LiFePO4 Battery

20~100 kWh

- LiFePO4 battery for enhanced safety and extended lifespan.
- Three-layer architecture (BMU + RBMS + SBMS) for comprehensive protection.
- Air conditioning, fans, and fire suppression system in the battery module.
- Standard 19-inch rack design for easy installation and maintenance.
- User-friendly touchscreen interface with multiple communication protocols.
- USB software upgrade for convenience.
- Modular design with 5.12kWh per battery module.
- Configurable from 4 to 14 modules in series.
- Scalable capacity supporting up to 8 clusters in parallel.

Battery Model	POW-HVC-20	POW-HVC-30	POW-HVC-50	POW-HVC-100
Nominal Voltage	204.8V	307.2V	512V	1024V
Rated Capacity	100Ah			
Battery Module Qty in Series	4	6	10	20
Nominal Energy	20.48kWh	30.72kWh	51.2kWh	102.4kWh
Charging Voltage	220.8~230.4V	331.2~345.6V	552~576V	1104~1152V
Discharge Cut-off Voltage	172.8V	259.2V	432V	608.4V
Float Charging Voltage	217.6~220.8V	326.4~ 331.2V	544~552V	1088~ 1104V
Max. Charging Current	100A			
Recommended Charging Current	20A			
Max. Discharging Current	100A			
Recommended Discharging Current	20A			
Status Indicator	RUN-Green Light; Alarm-Red Light			
Operating Temperature	Charge: 0~55℃ ; Discharge: -20~60℃			
Storage Temperature	0℃ ~45℃			
Communication Interface	CAN/RS485			
Cycle Life	≥ 4000 cycles at 0.5C/0.5C, 25℃			
IP Rating	IP20			
Certification	IEC62619, UN38.3, MSDS			
Warranty	5 years			
General Parameter of System Components				
RBMS				
Dimension(W/D/H)	482x500x182mm			
Weight Approx.	22kg			
LiFePO4 Battery Module-51.2V100Ah				
Dimension(W/D/H)	442x560x134.5mm			
Weight Approx.	43kg			
SBMS				
Dimension(W/D/H)	272x160x62mm			

High-voltage LiFePO4 Battery

Energy Storage System

- Supports RS485, CAN, Ethernet, and dry contact for integration.
- Internal battery balancing with up to 300mA current.
- High-precision voltage and temperature monitoring: ±3mV, ±1° C.
- Automatic control for parallel operation and offline control of lithium battery systems.
- Self-test and status monitoring with HMI display.
- Only one SBMS display required for parallel operation.
- Supports up to 19.2kW of PV power with dual inputs.
- Off-grid operation with <5ms switching time.
- Includes high/low voltage ride-through, islanding protection, and black start.
- Supports up to 15 PCS inverters in parallel.
- Built-in EMS (Energy Management System).
- Generator support with dry contact signal.

Battery Model	POW ESS-P100B215
DC Technical Specifications	
Nominal Voltage	768V
Rated Voltage Range	672~864V
Rated Capacity	280Ah
Battery Pack Configuration	1P16S (1 parallel, 16 series) (51.2V， 14.336kWh each battery)
Nominal Energy	215kWh
Charge/Discharge Rate	≤ 0.5CP
Cooling Method	Forced air cooling
AC Technical Specifications (On-grid)	
Rated Power	100KW
Rated Input Voltage	400Vac
Rated Voltage Range	320~460V
Rated Capacity	152A
Rated Frequency	50Hz/60Hz
Frequency Range	45~55Hz/55~65Hz
Total Current Waveform Distortion	<3% (at rated power)
Power Factor	>0.99 (at rated power)
Adjustable Power Factor Range	-1 (leading)~1 (lagging)
System Technical Specifications	
Auxiliary Power Parameters	2kW, 220V AC, 50Hz, 3-phase, N+PE
Fire Suppression System	S-type aerosol
Corrosion Resistance	C4
Ingress Protection (IP) Rating	IP54
Operating Temperature Range	-15℃ ~ +45℃
Storage Temperature	-20℃ ~ +55℃ (SOC@30% ~ 50%)
Operating Humidity Range	0% ~ 95% RH (non-condensing)
Installation Method	Outdoor installation
Operating Conditions	Maximum 2 charge and 2 discharge cycles per day
System Communication Interface	Ethernet/RS485
Communication Protocols	Modbus TCP/IEC61850/Modbus RTU
Altitude	3000m (derating above 3000m)
Dimensions (DWH)	2330*1738*1250mm
Weight	2400kg

24V 48V Battery Equalizer

For Lead-acid and Lithium Battery

- Make the voltage of each battery consistent.
- Suitable for a variety of battery types.
- Improve the battery's performance and extent the battery's lifetime.
- Automatic balance the battery voltage when it detects there is 20mV/10mV between two batteries.
- The parallel or series connection has no effect on equalizer operation.
- Balances the battery for 24 hours automatically.

Equalizer Model	BE24
Battery nominal voltage	2*12V
Optimizing current	0-5A
Quiescent current	<3mA
Protection	Reverse polarity protection
Low Voltage Disconnect	10V
Dimensions	70*70*27 mm
Net Weight	0.23Kg
Equalizer Model	**BE48**
Battery nominal voltage	4* (2.4V/3.6V/6V/9V/12V)
Optimizing current	0-10A
Quiescent current	5mA(12V) 1.2mA(2.4V)
Protection	Reverse polarity protection
Low Voltage Disconnect	18V
Dimensions	62*124*27 mm
Net Weight	0.41Kg

MINI
Solar Controller

Waterproof IP57

- Offer OEM ODM service.
- built-in industrial microcontroller.
- LED display, auto memory function.
- Fully integrated 4-stage PWM charge management.
- Dual MOSFET reverse current protection, low heat.
- IP57 waterproof and dustproof rating.
- Open circuit protection.

Controller Model	5A-12V	5A-12V-S	5A-12V-ST
Load work mode	Load working 24hs	Load working with light control: (Start work after sunset, stop working before sunrise.)	Load working with light+time control: (Start work only 8hs after sunset then stop work)
Rated charge current	5A		
Rated discharge current	5A		
Max PV input voltage (VOC)	DC22V		
Nominal system voltage	12V		
Selectable battery types	Sealed lead acid, Gel, Flooded battery		
Voltage drop of charging circuit	<0.2V		
Voltage drop of discharge circuit	<0.25V		
Equalization voltage	14.8V		
Bulk charging voltage	14.5V		
Boost charging voltage	14.2V		
Float charging voltage	13.8V		
Low voltage reconnect voltage	12.6V		
Low voltage disconnect voltage	11.2V		
Self-consumption	<10mA		
Temperature range	-35~+60 ℃		
Dimensions	60x25x18mm		
Net weight	50g		

MINI
Solar Controller

Waterproof IP68

- Offer OEM ODM service.
- built-in industrial microcontroller.
- Supports LED display and automatic memory function.
- Fully 4-stage PWM charge management.
- Dual MOSFET reverse current protection, low heat protection.
- IP68 waterproof and dustproof rating.
- Open circuit protection.
- Overload protection.

Controller Model	10A-12V	10A-12V-3S	10A-12V-4S
Load working mode	Load working 24h		
Rated charge current	10A		
Rated discharge current	10A		
Max PV input voltage	<50V		
Max PV input power	120W		
Nominal system voltage	12/24V		
Selectable battery types	Lead acid	LiCoMnNiO2 3 strings	LiFePO4 4 strings
Equalization voltage	14.4V	-	-
Boost voltage	14.2V	-	-
Float voltage	13.8V	12.6V	14.4V
Low voltage reconnect voltage	12.6V	10.5V	12.0V
Low voltage disconnect voltage	11.2V	9.0V	10.0V
Self-consumption	<10mA		
Temperature range	-20℃ ~60℃		
Dimensions	82x45x21mm	82x58x21mm	
Net weight	120g	135g	150g

MPPT
Solar Controller

Boost Voltage charging

- Boost Voltage Charging Controller.
- Integrated charge presets, support lithium battery and lead-acid battery.
- Compatible with 24V/36V/48V/60V/72V system voltage.
- 3-stage charge algorithm.
- Multiple built-in protections are incorporated to ensure safe and stable operation.
- Natural air cooling for silent operation.
- Built-in Lithium battery activation function.

Model	POW-Boost 10A		
PV Input			
PV Input Voltage	15~25V	25~48V	48~60V
PV Input Power	≤ 150W	≤ 250W	≤ 400W
System Voltage	24/36/48/60/72V	48/60/72V	60/72V
Charging Mode			
Charging technology	MPPT		
Charge Algorithm	3-Stage		
Self-consumption	<2W		
Nominal System Voltage	24V/36V/48V/60V/72V		
Battery Voltage Range	20~88V		
Environment			
Operating Temperature Range	-35℃ ~+65℃		
Humidity Range	≤ 95%		
General Specification			
Protection Class	IP32		
Dimension	140*85*50mm		
Net weight	305g		

MPPT
Solar Controller

Plug-and-play

- Compact and lightweight design for easy handling.
- Integrated presets for efficient charging of various battery types.
- Compatible with 12V/24V systems for versatile use.
- Quick plug-and-play wiring for easy installation.
- "One-Key" battery setup for instant charging initiation.
- Maximum Power Point Tracking (MPPT) for maximum solar power utilization.
- Durable and safe operation with multiple protections.

Model	POW-LTW-15A
Photovoltaic Input Parameters	
Maximum Input Power:	
12V System	180W
24V System	360W
Input Voltage Range:	
12V System	<30V
24V System	<60V
Battery Charging Parameters	
Charging Technology	MPPT
Charging Algorithm	3 Stages
Nominal System Voltage	12V/24V
Rated Charging Current	15A
Conversion Efficiency	≤ 98%
Max. Power Point Tracking Efficiency	>99%
Self-Consumption	12V 20mA, 24V 25mA
Environmental Parameters	
Operating Temperature Range	-35℃ ~+75℃
Humidity Range	≤ 95% Non-condensing
Altitude	<3000m
General Parameters	
Protection Level	IP32
Dimensions (excluding built-in wiring)	129x78x30mm
Net Weight	237g

MPPT
Solar Controller

20A-40A

- The efficiency of MPPT technology no less than 99.5%.
- Peak conversion efficiency up to 97%.
- Support lithium and lead acid battery types.
- Compatible with12V/24V system voltage.
- Communication supports peripheral connection such as PC.
- Wide operation temperature -20~55℃ suitable for various application.

Controller Model	POW-Keeper1220	POW-Keeper1230	POW-Keeper1240
Rated charging current	20A	30A	40A
System rated voltage	12/24V(Auto recognized)		
Voltage range of the battery	8~32V		
Max. open voltage of PV module	<60V	<75V	<100V
Battery type	User-define, Sealed, Flooded, GEL, LiFePO4		
Equalized charging voltage	Maintenance-fee lead acid battery: 14.6V GEL: 14.2V; Lead acid flooded battery: 14.6V		
Absorption charging voltage	Maintenance-fee lead acid battery: 14.4V GEL: No; Lead acid flooded battery: 14.8V		
Floating charging voltage	Maintenance-fee lead acid battery GEL, Lead acid flooded battery: 13.8V		
Low voltage reconnection	Maintenance-fee lead acid battery GEL, Lead acid flooded battery: 12.6V		
Low voltage disconnection	Maintenance-fee lead acid battery GEL. Lead acid flooded battery: 10.8V		
Static loss	≤ 50mA		
Duration of absorption charging	2 Hours		
Light control voltage	5V/10A		
Charge loop voltage drop	≤ 0.2V		
LCD Temperature	-20° C~+70° C		
Operating Temperature	-20° C~+55° C		
Working humidity	≤ 90% No condensation		
Protection class	IP30		
Dimension	123*178*48mm	135*195*55mm	150*220*67mm

Pstar Series Solar Controller

30A/60A/80A Charging

- Compatible with lithium-ion and lead-acid battery.
- Compatible with12V/24V/36V/48V system voltage.
- A variety of protection functions to extend the battery life.
- Natural air cooling heat dissipation to silent operation.
- The LCD enables real-time monitoring and parameter configuration.
- Small size, light weight, easy and quick installation.
- 2 USB ports with output of 5V and 2A.

Controller Model	Pstar-30A	Pstar-60A	Pstar-80A
PV Input			
Max. Input Power:			
For 12V system	≤ 360W	≤ 720W	≤ 960W
For 24V system	≤ 720W	≤ 1440W	≤ 1920W
For 36V system	≤ 1080W	≤ 2160W	≤ 2880W
For 48V system	≤ 1440W	≤ 2880W	≤ 3840W
Charge Specification			
Charge Algorithm	3-Stages		
Battery Type	Lithium and Lead Acid Battery, support user define		
Nominal System Voltage	12V/24V/36V/48V		
Rated Charging Current	30A	60A	80A
Self-consumption	≤ 20mA		
Output Specification			
Rated Output Current	20A	35A	50A
USB Interface	5V/2A*2		
Environmental Specification			
Operating Temperature Range	-20℃ ~+55℃		
Humidity Range	≤ 90%，Non-condensing		
General Specification			
Dimension	187x94x49mm	187x132x60mm	187x132x60mm
Net weight	0.49kg	0.77kg	0.79kg

MPPT
Solar Controller

25A/35A/45A Charging

- MPPT charging current up to 25A/35A/45A.
- Suitable for 12V/24V energy storage systems.
- Can charge lead-acid batteries or lithium batteries.
- Charging efficiency up to 97%.
- MPP tracking efficiency up to 99%.
- Three-stage charging for safety and efficiency.
- Built-in multiple protections to ensure safe operation.
- Heat sink for effective cooling.
- Built-in lithium battery activation function.

Models	POW-M25-PRO	POW-M35-PRO	POW-M45-PRO
Solar Input Parameters			
Max. Input Power:			
For 12V System	300W	420W	540W
For 24V System	600W	840W	1080W
Input Voltage Range:			
For 12V System	<60V	<80V	<100V
For 24V System	<60V	<80V	<100V
Battery Charging Parameters			
Charging Technology	MPPT		
Charging Algorithm	3 Stages		
Nominal System Voltage	12V/24V		
Battery Voltage Range	9~30V		
Rated Charging Current	25A	35A	45A
Conversion Efficiency	≤ 98%		
Max. Power Point Tracking Efficiency	>99%		
Temperature Compensation	-3mV/℃ /2V (default)		
Self-Consumption	44mA/12V; 26mA/24V		
DC Output Parameters			
Rated DC Output Current	15A	20A	25A
General Parameters			
IP Class	IP32		
Operating Temperature Range	-35℃ ~+45℃		
Humidity Range	≤ 95% Non-condensing		
Altitude	<3000m		
Dimensions	160x115x51mm	195x135x65mm	195x135x65mm
Net Weight	500g	900g	1035g

MPPT Solar Charge Controller

New Release

- Rotary knob design for easy battery type selection.
- Compatible with 12V/24V system voltages.
- 3-stage charging algorithm.
- MPPT maximum charging current up to 45A (for POW-RV1245A).
- Suitable for lead-acid and lithium batteries.
- Supports real-time monitoring of system parameters via remote control display.
- Built-in multiple protection features for safe operation.

Model	POW-RV1225A	POW-RV1235A	POW-RV1245A
PV Input			
Maximum Input Power:			
12V	300W	420W	540W
24V	600W	840W	1080W
Input Voltage Range:			
12V	<60V	<80V	<100V
24V	<60V	<80V	<100V
Battery Charging Parameters			
Charging Technology	MPPT		
Charging Algorithm	3 stages		
Nominal System Voltage	12V/24V		
Battery Voltage Range	9~30V		
Maximum Charging Current	25A	35A	45A
Conversion Efficiency	≤ 98%		
Max. Power Point Tracking Efficiency	>99%		
Temperature Compensation	-3mV/℃ /2V （default）		
Self-consumption	44mA/12V; 26mA/24V		
DC Output Parameters			
Rated DC Output Current	15A	20A	25A
General Parameters			
IP Rating	IP32		
Operating Temperature Range	-35℃ ~+45℃		
Humidity Range	≤ 95%, No Condensation		
Altitude	<3000m		
Dimensions	157x113x53mm	191x132x67mm	191x132x67mm
Net Weight	497g	824g	954g

MPPT
Solar Controller

Bestsellers

- Intelligent Maximum Power Point Tracking technology.
- Suitable for sealed lead acid, vented, Gel, and Lithium battery types.
- Backlight LCD displays function.
- With exact fault reference code for fixing.
- Silent operation since cooling is via natural convection.
- Back panel aluminum design for heat sink.

Controller Model	POW-M60-PRO
Charge specification	
Charging mode	MPPT
Charging Algorithm	3-Stage
Selectable battery type	Vented/ Sealed/ Gel/ NiCd/ Lithium battery, support user define
System type	DC12V/24V/36V/48V
Rated charging current	60A
PV utilization	≤ 98%
Input specification	
Max. Input Power:	
For 12V system	720W
For 24V system	1440W
For 36V system	2100W
For 48V system	2800W
Input Voltage Range:	
For 12V system	20-80Vdc
For 24V system	37-105Vdc
For 36V system	50-160Vdc
For 48V system	72-160Vdc
Output specification	
Rated output current	6A
Max. DC output current	8A
General Specification	
Temperature protection	80℃
Operating temperature	-35℃ ~45℃
Humidity	≤ 95%，Non-condensing
Acoustic noise	≤ 40dB
Dimension	230x165x72mm
Net weight	1.33kg

MPPT
Solar Controller

60A Charging

- Supports connection to both lead-acid and lithium batteries.
- Compatible with 12V/24V/36V/48V system voltages.
- Segmented charging algorithm to enhance battery performance.
- Maximum MPPT charging current of up to 60A.
- MPP tracking efficiency of up to 99% and peak conversion efficiency of up to 98%.
- Large LCD display screen design.
- Built-in terminal blocks to save approximately 60% of installation time.
- Built-in lithium battery activation function to address lithium battery protection.

Controller Model	POW-M60-MAX
Charge specification	
Charging mode	MPPT
Charging Algorithm	3-Stage
Selectable battery type	Vented/ Sealed/ Gel/ NiCd/ Lithium battery, support user define
System type	DC12V/24V/36V/48V Auto detect
Rated charging current	60A
PV utilization	≤ 98%
Input specification	
Max. Input Power:	
For 12V system	720W
For 24V system	1440W
For 36V system	2100W
For 48V system	2800W
Input Voltage Range:	
For 12V system	20-80Vdc
For 24V system	37-105Vdc
For 36V system	50-160Vdc
For 48V system	72-160Vdc
Output specification	
Rated output current	25A
Max. DC output current	30A
General Specification	
Temperature protection	80℃
Operating temperature	-35℃ ~45℃
Humidity	≤ 95%，Non-condensing
Acoustic noise	≤ 40dB
Dimension	230x165x72mm
Net weight	1.45kg

MPPT
Solar Controller

60A Charging

- MPPT charging current up to 60A.
- Compatible with 12V/24V/36V/48V energy storage systems.
- Supports charging for lead-acid or lithium batteries.
- Customizable charging current limit.
- Charging efficiency up to 97%.
- Maximum power point tracking efficiency up to 99%.
- Supports up to 12 units in parallel.
- External temperature sensor for precise battery temperature monitoring.
- Built-in multiple protection functions for safe operation.
- Heat sink design for efficient cooling.
- Built-in lithium battery activation function.

Model	POW-M60-ULTRA
Solar Input Parameters	
Max. Input Power:	
For 12V System	720W
For 24V System	1440W
For 36V System	2100W
For 48V System	2800W
Input Voltage Range:	
For 12V System	20V~80V
For 24V System	37V~105V
For 36V System	50V~160V
For 48V System	72V~160V
Battery Charging Parameters	
Charging Technology	MPPT
Charging Algorithm	3 Stages
Nominal System Voltage	12V/24/36V/48V
Battery Voltage Range	9~60V
Rated Charging Current	60A
Conversion Efficiency	≥ 98. 1%
Max. Power Point Tracking Efficiency	>99%
Self-Consumption	0.7W-1.2W
DC Output Parameters	
Rated DC Output Current	25A
General Parameters	
IP Class	IP32
Operating Temperature Range	-35℃ ~+45℃
Humidity Range	≤ 95% Non-condensing
Altitude	<3000m
Dimensions	221x163x77mm /8.7x6.42x3.03in
Net Weight	1442g / 3.18lb

MPPT Solar Controller

60A Charging

- Integrated charging presets.
- Compatible with 12V/24V/36V/48V system voltages.
- 3-stage charging algorithm.
- Maximum power point tracking (MPPT) technology.
- High-efficiency charging.
- Supports up to 12 units in parallel.
- Built-in multiple electronic protections.
- External temperature probe configuration.
- Forced Air Cooling.

Model	HHJ60-PRO
Solar Input Parameters	
Max. Input Power:	
For 12V System	720W
For 24V System	1440W
For 36V System	2100W
For 48V System	2800W
Input Voltage Range:	
For 12V System	20V~80V
For 24V System	37V~105V
For 36V System	50V~160V
For 48V System	72V~160V
Battery Charging Parameters	
Charging Technology	MPPT
System Voltage	12V/24V/36V/48V (Auto detect)
Charging Algorithm	3 stages
Overcharge Protection Voltage	60V
Charging Limit Current	61A
Maximum Efficiency	≥ 98. 1%
Solar Utilization Rate	≥ 99%
Load Terminal Output	
Rated Output Current	6A
Maximum DC Output Current	8A
Protection	
Temperature Protection	75℃ / 167 ℉
Fan Start Temperature	>45℃ / 104 ℉
Fan Shutdown Temperature	<40℃ / 95 ℉
General Specification	
Dimensions	215x130x85mm /8.46x5.12x3.35in
Net Weight	990g / 2.18lb
Electromagnetic Compatibility	EN61000, EN55022, EN55024
Protection Level	IP21
Operating Temperature	-20℃ ~ +55℃ / -4 ℉ ~ 131 ℉
Storage Temperature	-40℃ ~ +75℃ / -40 ℉ ~ 167 ℉

ROHS, IEC 62368-1, EN 55032, EN 55035, EN IEC 61000-3-2, EN 61000-3-3

MPPT
Solar Controller

80A/100A Charging

- MPPT charging current up to 80A/100A.
- Suitable for 12V/24V/36V/48V energy storage systems.
- Can charge lead-acid batteries or lithium batteries.
- Charging efficiency up to 97%.
- MPP tracking efficiency up to 99%.
- Supports up to 12 parallel connections.
- Three-stage charging for safety and efficiency.
- Built-in multiple protections to ensure safe operation.
- Integrated fan and heat sink for effective cooling.
- Built-in lithium battery activation function.

Model	POW-M80-PRO	POW-M100-PRO
Solar Input Parameters		
Max. Input Power:		
For 12V System	960W	1200W
For 24V System	1920W	2400W
For 36V System	2880W	3600W
For 48V System	3840W	4800W
PV Input Voltage Range:		
For 12V System	20V~80V	
For 24V System	37V~105V	
For 36V System	50V~160V	
For 48V System	72V~160V	
Battery Charging Parameters		
Charging Technology	MPPT	
Charging Algorithm	3 stages	
Nominal System Voltage	12V/24V/36V/48V	
Battery Voltage Range	9~60V	
Rated Charging Current	80A	100A
Conversion Efficiency	≤ 98%	
Max. Power Point Tracking Efficiency	>99%	
Temperature Compensation	-3mV/℃ /2V （default）	
Self-consumption	44mA/12V; 26mA/24V; 18mA/36V; 12mA/48V	
Environmental Parameters		
Operating Temperature Range	-35℃ ~+45℃	
Humidity Range	≤ 95%， Non-condensing	
Altitude	<3000m	
General Parameters		
Protection Level	IP32	
Dimensions	260x180x75mm	315x195x80mm
Net Weight	2kg	2.7kg

MPPT
Solar Charge Controller

New Release

- LCD screen displays all operating data at a glance.
- Compatible with 12V/24V/36V/48V system voltages.
- Maximum Power Point Tracking (MPPT) technology.
- Multi-stage charging algorithm enhances battery performance.
- Supports RS485 communication for remote monitoring.
- Offers 6 load working modes for flexible applications.
- Maximum charging efficiency up to 97%.
- External temperature sensor for accurate battery temperature monitoring.
- Built-in multiple protection features for safe operation.

Model	POW-K4880-H	POW-K48100-H
PV Input		
System Rated Voltage	20V/40V/60V/80V	
Maximum Input Power		
12V	1040W	1300W
24V	2080W	2600W
36V	3120W	3900W
48V	4160W	5200W
DC Output		
System Voltage	12V/24V/36V/48V	
Rated Charge Current	80A	100A
Rated Discharge Current	40A	50A
Self-consume	≤ 35mA (48V)	
MPPT Highest Accuracy	99%	
Max. Charging Efficiency	97%	
Charging Control Mode	Multi-stage (MPPT, Absorption, Float, Equalization, CV)	
Float Charge Voltage	13.8V/27.6V/41.4V/55.2V	
Boost Charge Voltage	14.4V/28.8V/43.2V/57.6V	
Equalization Charge Voltage	14.6V/29.2V/43.8V/58.4V	
Low Voltage Disconnect Voltage	10.8V/21.6V/32.4V/43.2V	
Low Voltage Recovery Voltage	12.6V/25.2V/37.8V/50.4V	
Light Control Point Voltage	5V/10V/15V/20V	
Battery Type	GEL, SLD, FLD, Lithium batteries, User define	
General Parameters		
Communication Mode	RS485, RJ45 port	
Operating Temperature Range	-20℃ ~+55℃	
Storage Temperature Range	-30℃ ~+80° C	
Humidity Range	10%~90% No condensation	
Dimensions	340×230×112mm	
Net Weight	4kg	

Remote Control Display

Accessory for Solar Charge Controllers

- Compatible with POW-M and POW-RV series controllers.
- LCD color screen for real-time display of operating parameters.
- Touch interface with responsive and easy tap control.
- Supports quick charging parameter setup by selecting battery type.
- Automatically generates and displays charts of charging power or energy production.
- Error code display for real-time system monitoring and accurate fault feedback.
- Supports quick controller reset.
- Magnetic backing for simple and flexible installation.
- Suitable for parallel systems with centralized management via the remote display.

Model	POW-Meter
Applicable Models	POW-M25-PRO; POW-M35-PRO; POW-M45-PRO POW-M60-PRO; POW-M60-MAX; POW-M60-ULTRA POW-M80-PRO; POW-M100-PRO POW-RV1225A; POW-RV1235A; POW-RV1245A
Input Power	5VDC (Powered by controller communication port)
Installation Method	Backplate mounting / Magnetic mounting on metal surfaces
Static Consumption	20mA/5V
Maximum Power Consumption	50mA/5V
Operating Environment	-20℃ ~ +65℃
Storage Environment	-20℃ ~ +80℃
Communication Cable Length	3 m
Dimensions	81×81×15 mm (including base, excluding communication cable)
Net Weight	153g (including base and communication cable)

Solar Charger Inverter

POW-HVM1K-12V
POW-HVM1.5K-24V

220V; Single phase; Off-grid

POW-HVM2H-12V-N
POW-HVM3.2H-24V-N

220V; Single phase; Off-grid

POW-HVM4.2M-24V-N
POW-HVM6.2M-48V-N

220V; Single phase;
Off-grid; 2 AC output

POW-HVM4.2M-24V-E
POW-HVM6.2M-48V-E

220V; Single phase;
Off-grid; 2 AC output

POW-HVM4.2K-24V-D

220V; Single phase; Off-grid

POW-PVS-6KW
POW-PVS-10KW

220V; Single phase;
2 MPPT; Off-grid

POW-SPH-6KW

220V; Single phase; Off-grid;
2 AC output; 2 MPPT

POW-HVM6.2KP

220V; Single/three phase; 2 AC
output; Off-grid; Max. parallel: 9

POW-ELITE6.6KW
POW-ELITE10.6KW

220V; Single phase; Off-grid;
2 AC output; 2 MPPT

POW-SunSmart 8KPL3
POW-SunSmart 10KPL3
POW-SunSmart 12KPL3

220V; Single/three phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-HVM10.2M

220V; Single phase;
Off-grid; 2 AC output

POW-HVM11KP

220V; Single/three phase; 2 MPPT;
Off-grid; Max. parallel: 9

POW-HV2.5K-12V-EU
POW-HV3.5K-12V-EU

220V; Single phase; Off-grid

POW-LVM2.4K-24V

110V; Single phase; Off-grid

POW-RELAB 3KU
POW-RELAB 5KU
POW-RELAB 10KU

110V; Single phase; Off-grid

POW-RELAB 3KU-SPLIT
POW-RELAB 5KU-SPLIT
POW-RELAB 10KU-SPLIT

110V; Single/split phase; Off-grid

POW-LVM3K-24V-H
POW-LVM5K-48V-N

110V; Single phase; Off-grid

POW-LVM3.2K-24V

110V; Single phase; Off-grid

POW-LVM4K-24V

110V; Single phase; Off-grid

POW-SunSmart SP5K

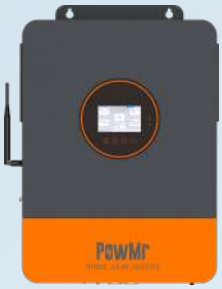
110V; Single/split phase;
Off-grid; Max. parallel: 6

POW-SunSmart 6.5KP

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-SunSmart 6.5KP -PRO

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6



POW-SunSmart LVM6.5K

110V; Single/split phase;
2 MPPT; On-grid & Off-grid;
Max. parallel: 6

POW-SunSmart 10KP

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-SunSmart 10KP -PRO

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-SunSmart 12KP

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-SunSmart 12KP -PRO

110V; Single/split phase; 2 MPPT;
Off-grid; Max. Parallel: 6

POW-SunSmart LVM12K

110V; Single/split phase;
2 MPPT; On-grid & Off-grid;
Max. parallel: 6

POW-LV2.5K-12/24V
POW-LV3.5K-12/24V

110V; Single phase; Off-grid

Energy Storage Battery

POW-30AH-12.8V
POW-50AH-12.8V
Up to 4 sets in parallel;
Up to 4 sets in series

POW-100AH-12.8V-MINI
Up to 4 sets in parallel;
Up to 4 sets in series

POW-100AH-12.8V
Up to 4 sets in parallel;
Up to 4 sets in series

POW-100AH-12.8V-T
POW-300AH-12.8V-T
Up to 4 sets in parallel;
Up to 4 sets in series

POW-150AH-12.8V
Up to 4 sets in parallel;
Up to 4 sets in series

POW-200AH-12.8V
POW-300AH-12.8V
Up to 4 sets in parallel;
Up to 4 sets in series

POW-100AH-25.6V
POW-200AH-25.6V
Up to 2 sets in parallel;
Up to 2 sets in series

POW-LIO48100-16S
POW-LIO48200-16S
Up to 16 units in parallel;
Wall-mounted

POW-LIO48100-IP65
Up to 16 units in parallel;
Wall-mounted

POW-LIO48100-3.5U

Up to 16 units in parallel;
Stackable

POW-LIO48300-16S

Up to 16 units in parallel;
Floor-standing

POW-LIO48300-IP65

Up to 16 units in parallel;
Floor-standing

POW-LIO48316-16S

Up to 16 units in parallel;
Floor-standing

POW-HVC SERIES

20~100 kWh; 100Ah; High Voltage

POW ESS-P100B215

215kWh; 280Ah; High Voltage

Battery Accessory

BE24

Gel/Flood/AGM;

BE48

VRLA/LFP/Ni/CD/Ni/MH

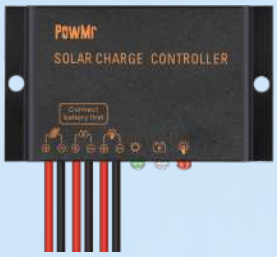
Controller

5A-12V

IP57; Lead acid battery

10A-12V

IP68; Lead acid & lithium battery



POW-Boost 10A

MPPT; 24/36/48/60/72V;
Lead acid & lithium battery

POW-LTW-15A

MPPT; 12V/24V;
Lead acid & lithium battery

POW-Keeper-1220
POW-Keeper-1230
POW-Keeper-1240

MPPT; 12/24V;
Lead acid & lithium battery

Pstar-30A
Pstar-60A
Pstar-80A

PWM; 12/24/36/48V;
Lead acid & lithium battery

POW-M25-PRO
POW-M35-PRO
POW-M45-PRO

MPPT; 12/24V;
Lead acid & lithium battery

POW-RV1225A
POW-RV1235A
POW-RV1245A

MPPT; 12/24V;
Lead acid & lithium battery

POW-M60-PRO

MPPT; 12/24/36/48V;
Lead acid & lithium battery

POW-M60-MAX

MPPT; 12/24/36/48V;
Lead acid & lithium battery

POW-M60-ULTRA

MPPT; 12/24/36/48V;
Lead acid & lithium battery

HHJ60-PRO

MPPT; 12/24/36/48V;
Lead acid & lithium battery

POW-M80-PRO
POW-M100-PRO

MPPT; 24/36/48/60/72V;
Lead acid & lithium battery

POW-K4880-H
POW-K48100-H

MPPT; 12/24/36/48V;
Lead acid & lithium battery

Controller Accessory

POW-Meter

Remote Control

ACCESSORIES

98/164/230/328FT

3/16/26/30/40/50FT

10/20/30/40/50FT

YRDS1EL-N32-4

TGZ40-AC275V-2P

MC4B-C2

Breaker 30-100A

Breaker 60-300A

Breaker 2P Dc/Ac 16-100A

POW-BAT-250A

POW-BAT-200A

ELECTRIC BOX-11KP

ELECTRIC BOX-6.2KP

DC Electricity Usage Monitor

AC Electricity Usage Monitor

Blade Fuse Block

MC4X-BN2

MC4T-AN2

MC4T-AN3

MC4T-AN4

MC4T-AN5

MC4T-AN6

MC4Y-BN4

MC4Y-BN2

MC4Y2-B22

MC4-pliers1/2

MC4D-7

MC4D-4/6