

NEW ENERGY NEW LIFE

PV PRODUCT CATALOG

2025





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E-catalog 2025



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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: New Energy New Life!

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



Established HehejinIndustrial Led.China

Major in Solar charge controller



Development of solar inverters and controllers

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



Core agent of EPEVER and Growatt

One of EPEVER'S largest distributors for three consecutive years



Research and development of inverter chargers and supporting lithium battery packs

Idea of PowMr everywhere...



Created the PowMr brand

Developing and designing solar controllers



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

smaller safer smarter

CERTIFICATE:CE ROHS FCC ETL EMC











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



AC Input Input Voltage Waveform Sinusoidal (Utility or generator) Nominal Input Voltage 230Vac Max AC Input Voltage 300Vac Nominal Input Frequency 50Hz/60Hz	
Nominal Input Voltage 230Vac Max AC Input Voltage 300Vac	
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°C ~50°C	
Storage Temperature −15°C ~60°C	
Dimensions 286x240x91mm	
Net Weight 3kg 3.5kg	

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	230	Vac
Max AC Input Voltage	300	Vac
Nominal Input Frequency	50/60Hz (Aut	to detection)
Efficiency	>95% (Rated R load,	battery full charged)
Transfer Time	10ms typical (UPS); 20r	ms typical (Appliances)
AC Output (Buck-Up)		
Rated Output Power	2000VA/1600W	3200VA/3000W
Output Voltage Regulation	230Vac±5% \$	Single phase
Output Frequency	50	Hz
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-St	ages
Max AC Charging Current	60Amp (@V	I/P=230Vac)
Max. PV Array Power	2000W	3000W
PV Array MPPT Voltage Range	30~40	00Vdc
Max. PV Array Open Circuit Voltage	400Vdc	
Max Charging Current (AC+PV)	80Amp	
General Specification		
Operation Temperature Range	-10°C ~50°C	
Storage Temperature	-15°C ~60°C	
Dimension	357x273x95mm	
Net Weight	4.6kg	4.8kg

2.0/3.2KW Output



- Pure sine wave inverter output.
- Supports double surge output for 1 seconds.
- Suitable for converting 12/24VDC to 230V ± 5% AC output.
- Max. charging current up to 140A.
- The RGB mode light allows for a clear observation of the inverter's operating mode.
- Configurable AC/Solar Charge priority via LCD setting.
- Supports grid charging and solar charging.
- Built-in anti-dust kit.
- Built-in multiple protection functions.



Inverter Model	POW-HVM2.0KW-12V	POW-HVM3.2KW-24V
AC Input		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230	Vac
Max. AC Input Voltage	300	Vac
Nominal Input Frequency	50Hz/60Hz(Au	uto detection)
Efficiency	>91%	>93%
Switching Time	10r	ms
AC Output (Off-grid)		
Rated Output Power	2.0KVA/2.0KW	3.2KVA/3.2KW
Output Voltage Regulation	230Va	c±5%
Output Frequency	501	Hz
Peak Efficiency	91%	94%
Surge Capacity	2*rated power for 1 seconds	
Cold Start Voltage	11.5Vdc	23.0Vdc
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	12V	24V
AC Charging & Solar Charging Mo	ode	
Charging Algorithm	3 sta	ages
Max. AC Charging Current	80Amp (@V	I/P=230Vac)
Max. PV Array Power	900W	1800W
PV Array MPPT Range	20~150Vdc	30~150Vdc
Max. PV Array Open Circuit Voltage	150Vdc	
Max. Charging Current (AC+PV)	140Amp	
General Parameters		
Operating Temperature Range	-10°C	~50℃
Storage Temperature	-15°C ~60°C	
Dimensions	415x290x	x111mm
Net Weight	7.2kg	7.3kg

RELAB-E Solar Inverter

220Vac 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 3KE	POW-RELAB 5KE	POW-RELAB 10KE
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage		220Vac	
Input Voltage Range		154~265Vac	
Nominal Input Frequency		50Hz/60Hz	
Switching Time	≤	10ms (UPS); ≤ 20ms (AF	PL)
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 L	ead Acid Battery, suppo	ort user define
System Voltage	24V	46	3V
AC Charging & Solar Charging Mo	de		
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	30~150Vdc	60~1	50Vdc
Max. PV Array Open Circuit Voltage		150Vdc	
Max. Charging Current (AC+PV)	60Amp	120	Amp
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	51kg

3.5KW Output



- Supports pure sine wave inverter and bypass output.
- Five AC output modes and three charging modes available.
- Max. output power up to 3500W/3500VA.
- MPP tracking range between 30~500Vdc.
- Supports grid charging and solar charging.
- Max. charging current up to 100A.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.



Inverter Model	POW-HVM3.5K-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 typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	3500VA/3500W	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz/60Hz	
Peak Efficiency	94%	
Surge Capacity	2*rated power for 5 seconds	
Cold Start Voltage	24Vdc	
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	24V	
AC Charging & Solar Charging Mo	ode	
Charging Algorithm	3 stages	
Max. AC Charging Current	60Amp (@VI/P=230Vac)	
Max. PV Array Power	4000W	
PV Array MPPT Range	30~500Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Input Current	15A	
Max. Charging Current (AC+PV)	100Amp	
General Parameters		
Operating Temperature Range	-10°C ~55°C	
Storage Temperature	-15°C ~60°C	
Dimensions	330x278x98mm	
Net Weight	4.4kg	

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 (Utili	ty or generator)
Nominal Input Voltage	230	Vac
Max AC Input Voltage	300	Vac
Nominal Input Frequency	50/60Hz (Au	to detection)
Efficiency	>95% (Rated R load,	battery full charged)
Transfer Time	10ms typical (UPS); 20	ms typical (Appliances)
AC Output (Buck-Up)		
Rated Output Power	4200W	6200W
Output Voltage Regulation	230Vac±5%	Single phase
Output Frequency	50	Hz
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	500	Vdc
Max Charging Current (AC+PV)	120/	Amp
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°C ~50°C	
Dimension	110x334	x423mm
Net Weight	9.5kg	10kg

Support 12 unit parallel



- 230V 6200W pure sine wave output.
- Allows connection of lithium or lead-acid batteries at 48V.
- Max. charging current up to 120A.
- Max. connection to 6500W PV array.
- Wide MPP tracking range from 60 to 500V.
- Built-in multiple protection functions.
- Supports single-phase or three-phase operation in parallel.



Inverter Model	POW-HVM6.2K-48V-LIP	
Parallel Operation		
Permissible Parallel Units	1~12	
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)	
Output Short Circuit Protection	Line mode: Circuit breaker; Battery mode: Electronic Circuits	
Switching Time	10ms typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	6200VA/6200W	
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	48V	
AC Charging & Solar Charging Mode		
Charging Algorithm	3 stages	
Max. AC Charging Current	80Amp (@VI/P=230Vac)	
Max. PV Array Power	6500W	
PV Array Max. Power Point Tracking Range	60~500Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Charging Current (AC+PV)	120Amp	
General Parameters		
Operating Temperature Range	-10°C ~55°C	
Storage Temperature	-15°C ~60°C	
Dimensions	450x300x130mm	
Net Weight	9.6kg	

6.2KW/6.2KVA Output



- Supports pure sine wave inversion and bypass output.
- Max. output power up to 6200W.
- MPP tracking range between 60~450Vdc.
- Supports grid charging and solar charging.
- Max. charging current up to 120A.
- Supports simultaneous grid and generator dual AC inputs.
- Built-in dual AC outputs.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.
- Built-in MC4 connectors, plug-and-play connection for PV input.



Inverter Model	POW-HVM6.2K-PRO	
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)	
Switching Time	10ms typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	6200VA/6200W	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Peak Efficiency	93%	
Overload Protection	5s@ ≥ 130% Load; 10s@105%~130% Load	
Surge Capacity	2*rated power for 5 seconds	
Standby Power Consumption	<55W	
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	100Amp (@VI/P=230Vac)	
Max. PV Array Power	6000W	
PV Array Max. Power Point Tracking Range	60~450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Charging Current (AC+PV)	120Amp	
General Parameters		
Operating Temperature Range	-10°C ~50°C	
Storage Temperature	-15°C ~60°C	
Dimensions	136x323.6x449.3mm	
Net Weight	10.3kg	

6.2KW Output



- Supports pure sine wave inverter and bypass output.
- Five AC output modes and three charging modes available.
- Max. output power up to 6200W/6200VA.
- MPP tracking range between 60~500Vdc.
- Built-in MC4 connectors.
- Supports grid charging and solar charging.
- Max. charging current up to 120A.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.



Inverter Model	POW-HVM6200W-48V	
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 typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	6200VA/6200W	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz/60Hz	
Peak Efficiency	94%	
Surge Capacity	2*rated power for 5 seconds	
Cold Start Voltage	46.0Vdc	
Battery Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	48V	
AC Charging & Solar Charging Mo	ode	
Charging Algorithm	3 stages	
Max. AC Charging Current	80Amp (@VI/P=230Vac)	
Max. PV Array Power	6500W	
PV Array MPPT Range	60~500Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Input Current	27A	
Max. Charging Current (AC+PV)	120Amp	
General Parameters		
Operating Temperature Range	-10°C ~55°C	
Storage Temperature	-15°C ~60°C	
Dimensions	438x312x122mm	
Net Weight	9kg	

SunSmart Solar Inverter

8/10/12KW 230V AC Output



- Supports single-phase (230Vac) or three-phase (400Vac) output.
- 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.
- Supports external WiFi communication.
- Built-in multiple protection functions.



Inverter Model	POW-SunSmart 8KL3	POW-SunSmart 10KL3	POW-SunSmart 12KL3
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	230	Vac/400Vac (three pha	se)
Input Voltage Range	Phase:	170~280Vac, Line: 305	5~485V
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	
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 Max. Power Point Tracking 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°C ~55°C, >45°C derated		
Dimensions	620x445x130mm		
Net Weight	27kg		



8/10/12KW 230V AC Output



- Supports single-phase (230Vac) or threephase (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	Sinu	usoidal (Utility or genera	itor)
Nominal Input Voltage	230	Vac/400Vac (three phas	se)
Input Voltage Range	Phase:	170~280Vac, Line: 305	5~485V
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 Parameters		
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	48V		
AC Charging & Solar Charging Mo	ode		
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		С
Max. PV Array Open Circuit Voltage	800Vdc/800Vdc		
Max. Charging Current (AC+PV)	180Amp	220Amp	260Amp
General Parameters			
Operating Temperature Range	-10°C ~55°C , >45°C 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°C ~50°C
Communication Interface	RS232 (WiFi)
Dimension	537x390x130mm
Net Weight	14.5kg

11KW Output



- Supports pure sine wave inverter and bypass output.
- Five AC output modes and three charging modes available.
- Max. output power up to 11000W/11000VA.
- MPP tracking range between 60~500Vdc.
- Built-in MC4 connectors.
- Dual MPPT, each input current can reach up to 18A.
- Supports grid charging and solar charging.
- Max. charging current up to 160A.
- Built-in dust cover.
- Air-cooled forced heat dissipation.
- Built-in multiple protection functions.



Inverter Model	POW-HVM11K-48V	
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 typical (UPS); 20ms typical (Appliances)	
AC Output (Off-grid)		
Rated Output Power	11000VA/11000W	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz/60Hz	
Peak Efficiency	94%	
Surge Capacity	2*rated power for 5 seconds	
Cold Start Voltage	46.0Vdc	
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	120Amp (@VI/P=230Vac)	
Max. PV Array Power	5500W/5500W	
PV Array MPPT Range	60~500Vdc/60~500Vdc	
Max. PV Array Open Circuit Voltage	500Vdc/500Vdc	
Max. Input Current	18A/18A	
Max. Charging Current (AC+PV)	160Amp	
General Parameters		
Operating Temperature Range	-10°C ~55°C	
Storage Temperature	-15°C ~60°C	
Dimensions	540x403x122mm	
Net Weight	14.8kg	

Hybrid Inverter

12/20KW Output



- 98.4% Max. Efficiency.
- 30A PV input current, 2 MPP trackers.
- 40A charge/discharge current.
- 110% continuous AC output overloading.
- 200% max. back-up output overloading @60s.
- 10ms UPS-level switching.
- Plug & Play terminals for easy wiring.
- OLED display and App for setting and data management.
- WIFI configuration via App.
- 135-750V wide battery voltage range.
- IP65 for indoor and outdoor installation.



Inverter Model	SOLXPOW X3-12K	SOLXPOW X3-20K
PV Input		
Max. PV Array Power	18000W	30000W
PV Input Voltage Range	135~1000V	
PV MPPT Voltage Range	200~950V	
Max. PV Input Current	30A/30A	30A/30A
Battery Specification		
Battery Type	Lithium Battery (with BMS)	
Battery Voltage Range	135~750V	
Max. Discharging Current	40A	
Max. Charging Current	40A	
AC Input & AC Output (On-Gri	d)	
Rated Output Power	12000W	20000W
Nominal Input Voltage	L/N/PE; 220/230/240V	
Nominal Frequency	50Hz/60Hz	
Max. Output Current	20A	33.5A
THD	<3% @Rated output power	
DCI	<0.5%In	
AC Output (Back-up)		
Rated Output Power	12000W	20000W
Nominal Input Voltage	L/N/PE; 220/230/240V	
Nominal Frequency	50Hz/60Hz	
Max. Output Current	20A	33.5A
Voltage Harmonic Distortion	<3% @Linear load	
General Specification		
Over Voltage Category	PV: II Main: III	
IP Class	IP65	
Parallel Operation Function	To be developed	
Dimension	534×418×210mm	
Net Weight	28kg	31kg

Hybrid Inverter

30/50KW Output



- 98.8% Max. Efficiency.
- 30A PV input current, 4 MPP trackers.
- 100A charge/discharge current.
- 110% continuous AC output overloading.
- 120% max. back-up output overloading @60s.
- 150% DC oversizing.
- Plug & Play terminals for easy wiring.
- OLED display and App for setting and data management.
- WIFI configuration via App.
- 144-750V wide battery voltage range.
- IP65 for indoor and outdoor installation.



Inverter Model	SOLXPOW X4-30K	SOLXPOW X4-50K	
PV Input			
Max. PV Array Power	45000W	75000W	
PV Input Voltage Range	140~1	1000V	
PV MPPT Voltage Range	200~	850V	
Max. PV Input Current	30A*4	30A*4	
Battery Specification			
Battery Type	Lithium Batte	ry (with BMS)	
Battery Voltage Range	144~	750V	
Max. Discharging Current	10	0A	
Max. Charging Current	10	0A	
AC Input & AC Output (O	n-Grid)		
Rated Output Power	30000W	50000W	
Nominal Input Voltage	L/N/PE; 220/230/240V		
Nominal Frequency	50Hz/60Hz		
Max. Output Current	50A	83A	
THD	<3% @Rated output power		
DCI	<0.5%ln		
AC Output (Back-up)			
Rated Output Power	30000W	50000W	
Nominal Input Voltage	L/N/PE; 220/230/240V		
Nominal Input Frequency	50Hz/	/60Hz	
Max. Output Current	50A	83A	
Voltage Harmonic Distortion	<3% @Lir	near load	
General Specification			
Over Voltage Category	PV: II Main: III		
IP Class	IP65		
Parallel Operation Function	To be developed		
Dimension	800×620×300mm		
Net Weight	72.0	Okg	

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, overtemperature, under-voltage, overvoltage, 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)	12V	/DC	
Output Voltage	220VA	C±10%	
Output Waveform	Pure Sin	ne Wave	
Output Frequency	501	Hz	
USB Output	5V/2	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	120~1	125%	
Overtemperature Protection	> 80°C		
Operating Temperature Range	-10°C ~+45°C		
Altitude	≤ 3000m		
Dimension(LxWxH)	352x207x85mm 390x207x85mm		
Net weight	4.18kg 5.38kg		



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 (AF	PL)	
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	48	3V	
AC Charging & Solar Charging Mo	de			
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	30~150Vdc	60~1	50Vdc	
Max. PV Array Open Circuit Voltage	150Vdc			
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 30~150Vdc/ 60~150Vdc.
- 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	Sinu	usoidal (Utility or genera	ntor)
Nominal Input Voltage		110Vac	
AC Input Voltage Range		77~132Vac	
Nominal Input Frequency		50Hz/60Hz	
Efficiency	>95% (Ra	ted 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 Mo	Mode		
Charging Algorithm		3 stages	
Max. AC Charging Current	38A	50A	105A
Max. PV Array Power	1600W	6400W	6400W
PV Array MPPT Range	30~150Vdc 60~150Vdc 60~150Vdc		60~150Vdc
Max. PV Array Open Circuit Voltage	150Vdc		
Max. PV Charging Current	60A 120A 120A		
General Parameters			
Operating Temperature Range	-10°C ~50°C		
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	110/1:	20Vac	
Input Voltage Range	90Vac~	140Vac	
Nominal Input Frequency	50/60Hz (Aut	to detection)	
Efficiency	>9	5%	
Transfer Time	10ms t	typical	
Max. Bypass Overload Current	40A	63A	
AC Output (Back-Up)			
Rated Output Power	3000VA/3000W	5000VA/5000W	
Output Voltage Regulation	120Vac Sir	ngle 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 Ba	ttery, support user define	
System Voltage	24V 48V		
Charging Voltage Range	20~33Vdc	40~60Vdc	
AC Charge & PV Charge Mode	AC Charge & PV Charge Mode		
Charging Algorithm	3-Sta	ages	
Max. AC Charging Current	40A	mp	
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°C ~55°C		
Storage Temperature	-25°C ~60°C		
Communication Interface	USB/RS485(WIFI)/Dry node control		
Dimension	378x280x103mm	426x322x126mm	
Net Weight	8kg	11.5kg	



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°C ~55°C	
Storage Temperature	-25°C ~60°C	
Dimensions	378x280x103mm	
Net Weight	6.8kg	

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°C ~55°C	
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	63A	
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 Mo	ode	
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

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 10K	POW-SunSmart 10KP
Permitted Parallel Number	/	1~6
AC Input		
Input Voltage Waveform	Sinusoidal (Utilii	ty or generator)
Nominal Input Voltage	120	Vac
Input Voltage Range	90~14	40Vac
Nominal Input Frequency	50/6	0Hz
Transfer Time	10ms t	cypical
Max. Bypass Overload Current	63	3A
AC Output (Back-Up)		
Rated Output Power	1000	00W
Output Voltage Regulation	120Vac/240Vac Sing	le phase/Split phase
Output Frequency	50/6	0Hz
Max. Battery Inverter Efficiency	92%	
Overload Protection	5s@ ≥ 125% load; 10s@110%~125%load; 5mins@102%~110%lo	
Load Capacity of Motors	61	IP
Battery Specification		
Battery Type	Lithium and Lead Acid Ba	ttery, 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	nge -10°C ~55°C , >45°C derated (-14~131 °F ; 113 °F de	
Communication interface	RS485 (WIFI) / CAN / USB / Dry contact	
Dimension	620x445x130mm (2x1.5x0.4ft)	
Net Weight	27kg (59.5lb)	



Max. 200A Charging



- IP65 waterproof and dustproof for various working conditions.
- On-grid and off-grid pure sine wave inverter.
- Support both Split Phase 208/240Vac and Single Phase 120Vac.
- Built-in AC coupled function.
- Built-in Wi-Fi for mobile monitoring (APP is available).
- Accepts second input power source, generator input compatible.
- Optional external CT sensor to guarantee 100% self-consumption.
- Built-in communication port for BMS (RS485).
- 2 MPP trackers, each with a 18A input, and a Max. PV input current of 30A.
- Parallel operation up to 6 units.



Inverter Model	POW-SunSmart LV12K	
Permitted Parallel Number	1~6	
AC Input		
Nominal Input Voltage	85Vac (per phase)/90Vac (per phase)	
Acceptable Voltage Range	85~140Vac (per phase)	
Nominal Input Frequency	50Hz/60Hz (Auto sensing)	
AC Output (Back-Up)		
Rated Output Power	10000VA/10000W	
Nominal Output Voltage	120Vac (P-N), 208Vac (P-P), 240Vac (P-P)	
Efficiency (DC to AC)	91%	
Battery Specification		
Battery Type	Lithium and Lead Acid Battery, support user define	
Nominal DC Voltage	40-62 VDC	
System Voltage	48V	
AC Charge & PV Charge Mode		
Charging Algorithm	3-Stages	
Max AC Charging Current	200A	
Max. PV Array Power	12000W	
PV MPPT Voltage Range	120~550Vdc	
Max. PV Array Open Circuit Voltage	600Vdc	
Max Charging Current (AC +PV)	200A	
AC Output (On-Grid)		
Nominal Output Power	10000VA/10000W	
Nominal Output Voltage	120Vac (P-N), 208Vac (P-P), 240Vac (P-P)	
Output Voltage Range	105.5Vac~132Vac (per phase)	
Nominal Output Current	41.7 A per phase	
Power Factor	0.9 lag to 0.9 lead	
General Specification		
Protection Degree	IP 65	
Operating Temperature	-25° C to 60° C (>45° C derating)	
Communication Interface	RS232, RS485, WI-FI, USB	
Dimension	215.5 x 515 x 798mm	
Net Weight	49kg	
	LIL 17/19A JEEF 15/7_1 ECC	

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		110VA	C±10%	
Output Waveform		Pure Sir	ne Wave	
Output Frequency		50Hz±1%/	/60Hz±1%	
USB Output		5V/2	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°C			
Operating Temperature Range	-25°C ~+55°C			
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.
- Designed with a lead-acid battery casing for easy system upgrades from lead-acid to lithium batteries.
- 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 Specificat	ions			
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 Curi	rent	30A	50A	
Max. Discharging C	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 4000 times (0.2C, 25° C@80% DOD) (0.2C, 25° C@80% DO		
Casing Material		ABS		
Operating	Charging	0°C ~60°C	0°C ~60°C	
Temperature	Discharging	-10°C ~60°C	-10°C ~60°C	
Storage Temperature		-30°C ~50°C	-30°C ~50°C	
Dimension		124x164x172mm	138x213x229mm	
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.
- Ideal upgrade for lead-acid battery storage systems .
- 6000 cycle lifespan.
- Compact size, lightweight, improved space utilization.
- Simple and user-friendly installation.

Battery Model		POW-100AH- POW-100AH 12.8V-MINI -12.8V		POW-150AH -12.8V	
Battery Specific	ations				
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 Parame	eters				
Cycle Life		6000 times (0.2C, 25° C@80% DOD)			
Casing Material		ABS			
Operation	Charging	0℃~55℃	0℃~55℃	0°C ~55°C	
Temperature	Discharging	-20°C ~55°C	-20°C ~55°C	-20°C ~55°C	
Dimension		260x169x211mm	325x170x215mm	330x171x215mm	
Net Weight		10kg	11.5kg	15kg	



100~300Ah 12.8V/25.6V



- A wide range of battery models to meet diverse capacity needs.
- Supports both series and parallel connections.
- Ideal upgrade for lead-acid battery storage systems.
- 6000 cycle lifespan.
- Compact size, lightweight, improved space utilization.
- Simple and user-friendly installation.



Battery Model		POW-200AH -12.8V	POW-300AH -12.8V	POW-100AH -25.6V		
Battery Specific	ations					
Battery Type		LiFePO4 battery				
Nominal Voltage		12.8V	12.8V	25.6V		
Rated Capacity		200AH	300AH	100AH		
Rated Energy		2560Wh	3840Wh	2560Wh		
Operating Voltage Range		10.8~14.6V	10.8~14.6V	21.6~29.2V		
Charging Voltage		14V	14.6V	29.2V		
Max. Charging Current		200A	200A	100A		
Max. Discharging Current		200A	200A	100A		
Max. No. of Series Connections		4 PCS	4 PCS	2 PCS		
Max. No. of Para	Max. No. of Parallel Connections		4 PCS	2 PCS		
General Parame	ters					
Cycle Life		6000 times (0.2C, 25° C@80% DOD)				
Casing Material		ABS				
Operation Temperature	Charging	0°C ~55°C	0°C ~45°C	0°C ~45°C		
	Discharging	-20°C ~55°C	-20°C ~60°C	-20°C ~60°C		
Dimension		485x170x240mm	522x240x218mm	485x170x240mm		
Net Weight		19kg	30kg	21kg		

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		
Recommended Charging Current	40A	40A		
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°C			
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				
POWNT	victron ener	GROWATT 古 瑞 瓦 特		
GOODME PYLON	TECH Voltronic Power	S FAR		
LU POWER Dey	e MEGAREVO	MUST美世乐		
SRNE 硕日				

Floor-standing LiFePO4 Battery

280Ah Rated Capacity



- No installation required.
- The Foma casters wheels at the bottom of the inverter 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 Models	POW-LIO48300-16S			
System Voltage	51.2V			
Capacity	280Ah			
Nominal Energy	14.336KWh			
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°C; Discharging: -10°C ~ 65°C			
Nominal Operation Altitude	< 2000m			
Nominal Operation Humidity	<90%RH			
IP Grade	IP21			
Recommended Operation Environment	Indoor			
BMS communication protocol matching				
POWM	wictron energy 古			
GOODME PYLONTE	CH Voltronic Power Advanding Power Advanding Power			
LU POWER Deye	MEGAREVO MUST美世乐			

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Stacked Lithium Iron Phosphate Battery

High Voltage Battery



- Stackable installation and connection.
- No traditional cable connection required between batteries.
- IP65 protection rating suitable for indoor or outdoor use.
- Sleek appearance, suitable for home or commercial settings.
- Max. 5 batteries can be stacked, with system voltage ranging from 204.8V (2 batteries) to 512V (5 batteries).



Battery Model	POW-HVB-10	POW-HVB-15	POW-HVB-20	POW-HVB-25
System Voltage	204.8V	307.2V	409.6V	512V
Capacity	50AH			
Discharge Cut-off Voltage	172.8V	259.2V	345.6V	432V
Voltage Range	172.8~224V	259.2~336V	345.6~448V	432~512V
Charging Cut-off Voltage	224V	336V	448V	512V
Max. Charging Current	50A			
Max. Discharging Current	50A			
Max. Stacking Quantity	5			
Energy Capacity Expansion Limit	25kWh			
Charging Temperature	0°C ~55°C			
Discharging Temperature	-20°C ~55°C			
Communication Port	RS232, RS485, CAN			
Cycle Life	≥ 5000 Times @80%DOD,25°C , 0.5C; ≥ 4000 Times @80%DOD,40°C , 0.5C			
Protection Rating	IP65			
Dimensions (LxWxH)	636x185x1055 mm	636x185x1400 mm	636x185x1745 mm	636x185x2100 mm
Net Weight	~128kg	~176kg	~224kg	~272kg
BMS Communication Protocol Matching				
POWMr =	eye GOODNE GRO		RDWATT 端 瓦 特	
MEGAREVO 💠	AiSWEI	KOYOE	San San	solis
sunways				

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	10.24kWh	
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°C ; Discharge: −20~60°C				
Storage Temperature	0°C ~45°C				
Communication Interface	CAN/RS485				
Cycle Life	≥ 4000 cycles at 0.5C/0.5C, 25°C				
IP Rating	IP20				
Certification		IEC62619, UN38.3, MSDS			
Warranty	5 years				
Gene	ral Parameter of	System Compone	ents		
RBMS					
Dimension(W/D/H)	482x500x182mm				
Weight Approx.	22kg				
LiFePO4 Battery Module-51.2V100Ah					
imension(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.



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 Nottage 400Vac Rated Input Voltage 400Vac Rated Voltage Range 320-460V 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°C ~ +45°C Storage Temperature -20°C ~ +55°C (SOC@30% ~ 50%) Operating Humidity Range 0% ~ 95% RH (non-condensing) Installation Meth	Battery Model	POW ESS-P100B215
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 Voltage Range 320~460V 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°C ~ +45°C Storage Temperature -20°C ~ +55°C (SOC@30% ~	DC Technical Specifications	
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 Power 100KW Rated Input Voltage 400Vac Rated Voltage Range 320~460V Rated Frequency 50H2/60Hz Frequency Range 45~55H2/55~65Hz Total Current Waveform Distortion <3% (at rated power)	Nominal Voltage	768V
Battery Pack Configuration 1P16S (1 parallel, 16 series) (51.2V, 14.336kWh each battery) Nominal Energy 215kWh Charge/Discharge Rate 5.0.5CP Cooling Method Forced air cooling AC Technical Specifications (On-grid) Rated Power 100KW Rated Input Voltage 400Vac Rated Voltage Range 320~460V Rated Gapacity 152A Rated Frequency 50Hz/60Hz Frequency Range 45~55Hz/55~65Hz Total Current Waveform Distortion 90.99 (at rated power) Adjustable Power Ractor Range 1 (leading)~1 (lagging) System Technical Specifications Auxillary Power Parameters 2kW, 220V AC, 50Hz, 3-phase, N+PE Fire Suppression System S-type aerosol Corrosion Resistance C4 Ingress Protection (IP) Rating 1P54 Operating Temperature Range 1-15°C ~ +45°C Storage Temperature 20°C ~ +55°C (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	Rated Voltage Range	672~864V
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 80Hz/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 Auxillary 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 1-15°C ~ +45°C Storage Temperature Power	Rated Capacity	280Ah
Charge/Discharge Rate Cooling Method Forced air cooling AC Technical Specifications (On-grid) Rated Power Rated Input Voltage Rated Voltage Range Rated Capacity Rated Frequency Frequency Range Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Fire Suppression System Corrosion Resistance Corporating Temperature Range Poperating Temperature Poperating Temperature Poperating 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	Battery Pack Configuration	
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°C ~ +45°C Storage Temperature -20°C ~ +55°C (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	Nominal Energy	215kWh
AC Technical Specifications (On-grid) Rated Power Rated Input Voltage Rated Voltage Range Rated Voltage Range Rated Gapacity Rated Frequency Frequency Range 45°-55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Pire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Operating Humidity Range 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	Charge/Discharge Rate	≤ 0.5CP
Rated Power Rated Input Voltage Rated Voltage Range Rated Voltage Range Rated Capacity Rated Frequency Rated Frequency Frequency Range A5~55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range Auxiliary Power Parameters Pire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Poperature Poperature Poperating Humidity Range Poperating Conditions Maximum 2 charge and 2 discharge cycles per day System Communication Interface Rated Power Padov Adovac Adovac Adovac Adovac As As Adovac As Adovac As Adovac As Adovac As Adovac As Adovac As As Adovac As As Adovac As Adovac As Adovac As As Adovac As Adovac As Adovac As As As Adovac As As As Adovac As A	Cooling Method	Forced air cooling
Rated Input Voltage Rated Voltage Range Rated Capacity Rated Capacity Rated Frequency SoHz/60Hz Frequency Range 45~55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Fire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Power Mange Power Pactor Range Power Pactor Range Power Parameters Rated power) Power Pactor Range Power Pactor Range S-type aerosol Corrosion Resistance C4 Ingress Protection (IP) Rating Post Operating Temperature Range Power Pactor Power Pactor Rated power) Power Pactor Rated power) Power Pactor Rated power) Power Pactor Rated power) Power Factor Po	AC Technical Specifications (On-grid)	
Rated Voltage Range Rated Capacity Rated Frequency SoHz/60Hz Frequency Range 45~55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Pire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Range Storage Temperature Power Department of Communication Method Operating Conditions Maximum 2 charge and 2 discharge cycles per day System Communication Interface Ethernet/RS485 Communication Protocols Atitude Dimensions (DWH) Atitude Sanoth Attach Communication Interface Attach Call Size A 45°C Storage Temperature Attach Call Size A 45°C Si	Rated Power	100KW
Rated Capacity Rated Frequency Frequency Range 45~55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Fire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Range Power ange Temperature Power Technical Specifications Auxiliary Power Parameters Eire Suppression System S-type aerosol Corrosion Resistance C4 Ingress Protection (IP) Rating IP54 Operating Temperature Range -15°C ~ +45°C Storage Temperature Power Parameters Auxiliary Power Parameters C4 Ingress Protection (IP) Rating IP54 Operating Temperature Range -15°C ~ +55°C (SOC@30% ~ 50%) Operating Humidity Range Ow ~ 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	Rated Input Voltage	400Vac
Rated Frequency Frequency Range 45~55Hz/55~65Hz Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Fire Suppression System Corrosion Resistance Ingress Protection (IP) Rating Operating Temperature Range Temperature Power Parameter Storage Temperature Power Parameter Power Parameter The Suppression System South Power Parameter C4 Ingress Protection (IP) Rating IP54 Operating Temperature Range Power Parameter Power Parameter Power Parameters Total Current Waveform Distortion IP54 C4 Ingress Protection (IP) Rating IP54 Operating Temperature Power Parameter Power Parameters Power Parameter Parameters Power Parameter Passen, N+PE Power Parameters Power Parameter Passen, N+PE Power Parameters Power Parameter Passen, N+PE Power Passen, N+PE Power Parameter Passen, N+PE Power Parameter Passen, N+PE Power Parameter Passen, N+PE Power Passen, Pass	Rated Voltage Range	320~460V
Frequency Range Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Every Protection (IP) Rating Operating Temperature Range Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Every Power Parameters Every Power Parameters Cut Ingress Protection (IP) Rating Operating Temperature Range Total Currosion Resistance Cut Ingress Protection (IP) Rating Operating Temperature Range Total Currosion Resistance Cut Ingress Protection (IP) Rating Operating Temperature Total Currosion Resistance Cut Ingress Protection (IP) Rating Oward Post Post Post Post Post Post Post Post	Rated Capacity	152A
Total Current Waveform Distortion Power Factor Adjustable Power Factor Range System Technical Specifications Auxiliary Power Parameters Fire Suppression System Corrosion Resistance Ingress Protection (IP) Rating Operating Temperature Range Operating Humidity Range Operating Humidity Range Installation Method Operating Conditions System Communication Interface Communication Protocols Modbus TCP/IEC61850/Modbus RTU Altitude Dimensions (DWH) Alging Algiar ated power) 300 (at rated power) 43% (at rated power) 409.99 Adjusted power) 44 (leading)~1 (lagging) 50.99 (at rated power) 40.99 (at rated power) 50.99 (at rated power) 60.99 (at rated power) 60.99 (at rated power) 60.99 (at rated power) 61.99 (at rated power) 61.99 (at rated power) 62.90 (at rated power) 62.9	Rated Frequency	50Hz/60Hz
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°C ~ +45°C Storage Temperature -20°C ~ +55°C (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	Frequency Range	45~55Hz/55~65Hz
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 Operating Temperature Range -15°C ~ +45°C Storage Temperature -20°C ~ +55°C (SOC@30% ~ 50%) Operating Humidity Range Ow ~ 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)	Total Current Waveform Distortion	<3% (at rated power)
Auxiliary Power Parameters Auxiliary Power Parameters Fire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Range Temperature C5°C ~ +45°C Storage Temperature Operating Humidity Range Operating Humidity Range Oward 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)	Power Factor	>0.99 (at rated power)
Auxiliary Power Parameters 2kW, 220V AC, 50Hz, 3-phase, N+PE Fire Suppression System S-type aerosol Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Range -15°C ~ +45°C Storage Temperature -20°C ~ +55°C (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)	Adjustable Power Factor Range	-1 (leading)~1 (lagging)
Fire Suppression System Corrosion Resistance C4 Ingress Protection (IP) Rating Operating Temperature Range S-type aerosol IP54 Operating Temperature Range -15°C ~ +45°C Storage Temperature -20°C ~ +55°C (SOC@30% ~ 50%) Operating Humidity Range O% ~ 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)	System Technical Specifications	
Corrosion Resistance Ingress Protection (IP) Rating Operating Temperature Range Storage Temperature Coperating Humidity Range Installation Method Operating Conditions System Communication Interface Communication Protocols Altitude Occupation (IP) Rating IP54 -15°C ~ +45°C -20°C ~ +55°C (SOC@30% ~ 50%) Outdoor installation Outdoor installation Maximum 2 charge and 2 discharge cycles per day Ethernet/RS485 Communication Protocols Modbus TCP/IEC61850/Modbus RTU Altitude 3000m (derating above 3000m) Dimensions (DWH)	Auxiliary Power Parameters	2kW, 220V AC, 50Hz, 3-phase, N+PE
Ingress Protection (IP) Rating Operating Temperature Range Storage Temperature Operating Humidity Range Operating Humidity Range Oward or installation Operating Conditions Maximum 2 charge and 2 discharge cycles per day System Communication Interface Ethernet/RS485 Communication Protocols Altitude Outdoor installation 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)	Fire Suppression System	S-type aerosol
Operating Temperature Range -15°C ~ +45°C Storage Temperature -20°C ~ +55°C (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)	Corrosion Resistance	C4
Storage Temperature -20°C ~ +55°C (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	Ingress Protection (IP) Rating	IP54
Operating Humidity Range O% ~ 95% RH (non-condensing) Outdoor installation Operating Conditions Maximum 2 charge and 2 discharge cycles per day System Communication Interface Ethernet/RS485 Communication Protocols Altitude Altitude Jimensions (DWH) Outdoor installation Maximum 2 charge and 2 discharge cycles per day Ethernet/RS485 Modbus TCP/IEC61850/Modbus RTU 3000m (derating above 3000m)	Operating Temperature Range	-15°C ~ +45°C
Installation Method 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	Storage Temperature	-20°C ~ +55°C (SOC@30% ~ 50%)
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	Operating Humidity Range	0% ~ 95% RH (non-condensing)
System Communication Interface Communication Protocols Altitude Dimensions (DWH) Ethernet/RS485 Modbus TCP/IEC61850/Modbus RTU 3000m (derating above 3000m) 2330*1738*1250mm	Installation Method	Outdoor installation
Communication Protocols Altitude Dimensions (DWH) Modbus TCP/IEC61850/Modbus RTU 3000m (derating above 3000m) 2330*1738*1250mm	Operating Conditions	Maximum 2 charge and 2 discharge cycles per day
Altitude 3000m (derating above 3000m) Dimensions (DWH) 2330*1738*1250mm	System Communication Interface	Ethernet/RS485
Dimensions (DWH) 2330*1738*1250mm	Communication Protocols	Modbus TCP/IEC61850/Modbus RTU
	Altitude	3000m (derating above 3000m)
Weight 2400kg	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	0.23 K g
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	0.41 K g

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	Seale	d lead acid, Gel, Flooded b	attery	
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 °C			
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°C ~60°C	
Dimensions	82x45x21mm	82x58	x21mm
Net weight	120g	135g	150g

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°C ~+65°C	
Humidity Range	≤ 95%		
General Specification			
Protection Class		IP32	
Dimension		140*85*50mm	
Net weight		305g	

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°C ~+75°C
Humidity Range	≤ 95% Non-condensing
Altitude	<3000m
General Parameters	
Protection Level	IP32
Dimensions (excluding built-in wiring)	129x78x30mm
Net Weight	237g

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 with 12 V/24 V system voltage.
- Communication supports peripheral connection such as PC.

INDIOCEAN

• Wide operation temperature -20~55°C suitable for various application.



Controller Model	POW-Keeper1220	POW-Keeper1230	POW-Keeper1240
Rated charging current	20A	30A	40A
System rated voltage	1	2/24V(Auto recognized)	
Voltage range of the battery		8~32V	
Max. open voltage of PV module	<60V	<75V	<100V
Battery type	User-defi	ne, Sealed, Flooded, GEL	., LiFePO4
Equalized charging voltage		ance-fee lead acid batte /; Lead acid flooded bat	
Absorption charging voltage		ance-fee lead acid batte Lead acid flooded batte	
Floating charging voltage		enance-fee lead acid ba ead acid flooded battery	
Low voltage reconnection		cenance-fee lead acid ba ead acid flooded battery	
Low voltage disconnection		zenance-fee lead acid ba ead acid flooded battery	
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



30A/60A/80A Charging



- Compatible with lithium-ion and lead-acid battery.
- Compatible with 12V/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 l	Lead Acid Battery, suppo	rt 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°C ~+55°C	
Humidity Range	:	≤ 90%, Non-condensing	
General Specification			
Dimension	187x94x49mm	187x132x60mm	187x132x60mm
Net weight	0.49kg	0.77kg	0.79kg

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/°C /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°C ~+45°C	
Humidity Range		≤ 95% Non-condensing	
Altitude		<3000m	
Dimensions	160x115x51mm	195x135x65mm	195x135x65mm
Net Weight	500g	900g	1035g

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	208
Operating temperature	-35°C ~45°C
Humidity	≤ 95%, Non-condensing
Acoustic noise	≤ 40dB
Dimension	230x165x72mm
Net weight	1.33kg

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°C ~45°C
Humidity	≤ 95%, Non-condensing
Acoustic noise	≤ 40dB
Dimension	230x165x72mm
Net weight	1.45kg

New Release



- 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°C ~+45°C
Humidity Range	≤ 95% Non-condensing
Altitude	<3000m
Dimensions	221x163x77mm /8.7x6.42x3.03in
Net Weight	1442g / 3.18lb



Solar Input Parameters Max. Input Power: 720W For 24V System 720W For 24V System 2100W For 48V System 2800W Input Voltage Range: 800W 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/24W/36W/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 6A Maximum DC Output Current 8A Protection 75°C / 167°F Fan Start Temperature > 45°C / 104°F Fan Start Temperature > 45°C / 104°F Fan Shutdown Temperature < 40°C / 95°F General Specification Dimensions Dimensions </th <th>Model</th> <th colspan="2">HHJ60-PRO</th>	Model	HHJ60-PRO		
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 36V System 37V~105V For 36V System 50V~160V For 48V System 72V~160V Battery Charging Parameters Charging Technology MPPT System 12V/24V/36V/48V (Auto detect) Charging Algorithm 3 stages Overcharge Protection Voltage 60V Charging Limit Current 61A Maximum Efficiency ≥ 99% Load Terminal Output Rated Output Current 8A Protection Temperature Protection 75°C / 167 °F Fan Start Temperature 40°C / 95 °F General Specification Dimensions 215×130×85mm /8.46×5.12×3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level 1P21 Operating Temperature −20°C ~ +55°C / −4 °F ~ 131 °F	Solar Input Parameters			
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°C / 167 °F Fan Start Temperature 40°C / 95 °F General Specification Dimensions 215x130x85mm /8 46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level 1P21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Max. Input Power:			
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°C / 167 °F Fan Start Temperature > 45°C / 104 °F Fan Shutdown Temperature 40°C / 95 °F General Specification Dimensions 215x130x85mm /8 46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level 1P21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	For 12V System	720W		
For 48V System 2800W	For 24V System	1440W		
Input Voltage Range: For 12V System	For 36V System	2100W		
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/24W/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°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	For 48V System	2800W		
For 24V System 37V~105V For 36V System 50V~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°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Input Voltage Range:			
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°C / 167 °F Fan Start Temperature > 45°C / 104 °F Fan Shutdown Temperature < 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level 1P21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	For 12V System	20V~80V		
For 48V System Battery Charging Parameters Charging Technology MPPT System Voltage 12V/24V/36V/48V (Auto detect) Charging Algorithm 3 stages Overcharge Protection Voltage 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°C / 167 °F Fan Start Temperature ≥ 45°C / 104 °F Fan Shutdown Temperature 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	For 24V System	37V~105V		
Battery Charging Parameters Charging Technology 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°C / 167°F Fan Start Temperature > 45°C / 104°F Fan Shutdown Temperature < 40°C / 95°F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature -20°C ~ +55°C / -4°F ~ 131°F	For 36V System	50V~160V		
Charging Technology 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°C / 167 °F Fan Start Temperature ≥ 45°C / 104 °F Fan Shutdown Temperature < 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Protection Level Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	For 48V System	72V~160V		
System Voltage 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°C / 167 °F Fan Start Temperature > 45°C / 104 °F Fan Shutdown Temperature < 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Battery Charging Parameters			
Charging Algorithm Overcharge Protection Voltage 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°C / 167 °F Fan Start Temperature > 45°C / 104 °F Fan Shutdown Temperature < 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Electromagnetic Compatibility Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Charging Technology	MPPT		
Overcharge Protection Voltage Charging Limit Current 61A Maximum Efficiency ≥ 98. 1% Solar Utilization Rate Load Terminal Output Rated Output Current 6A Maximum DC Output Current 8A Protection Temperature Protection 75°C / 167 °F Fan Start Temperature > 45°C / 104 °F Fan Shutdown Temperature < 40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	System Voltage	12V/24V/36V/48V (Auto detect)		
Charging Limit Current Maximum Efficiency ≥ 98. 1% Solar Utilization Rate Load Terminal Output Rated Output Current 6A Maximum DC Output Current 8A Protection Temperature Protection 75°C / 167°F Fan Start Temperature > 45°C / 104°F Fan Shutdown Temperature < 40°C / 95°F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4°F ~ 131°F	Charging Algorithm	3 stages		
Maximum Efficiency Solar Utilization Rate ≥ 99% Load Terminal Output Rated Output Current 6A Maximum DC Output Current 8A Protection Temperature Protection 75°C / 167°F Fan Start Temperature > 45°C / 104°F Fan Shutdown Temperature < 40°C / 95°F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Electromagnetic Compatibility Protection Level Operating Temperature ≥ 98. 1% 6A A 8A Protection 75°C / 167°F Fan Shutdown Temperature > 40°C / 95°F General Specification Pimensions 115x130x85mm /8.46x5.12x3.35in Protection Level IP21 Operating Temperature	Overcharge Protection Voltage	60V		
Solar Utilization Rate Load Terminal Output Rated Output Current 6A Maximum DC Output Current 8A Protection Temperature Protection Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <45°C / 104 °F Fan Shutdown Temperature 215x130x85mm /8.46x5.12x3.35in Net Weight Protection Level Operating Temperature P21 -20°C ~ +55°C / -4 °F ~ 131 °F	Charging Limit Current	61A		
Load Terminal Output Rated Output Current 6A Maximum DC Output Current 8A Protection Temperature Protection 75°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Maximum Efficiency	≥ 98. 1%		
Rated Output Current Maximum DC Output Current 8A Protection Temperature Protection 75°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature 6A 8A Protection 75°C / 167 °F 245°C / 104 °F En61000, EN55°C / 2.18lb EN61000, EN55022, EN55024 Protection Level Operating Temperature	Solar Utilization Rate	≥ 99%		
Maximum DC Output Current Protection Temperature Protection 75°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Load Terminal Output			
Protection Temperature Protection 75°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Rated Output Current	6A		
Temperature Protection 75°C / 167 °F Fan Start Temperature >45°C / 104 °F Fan Shutdown Temperature <40°C / 95 °F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Maximum DC Output Current	8A		
Fan Start Temperature >45°C / 104°F Fan Shutdown Temperature <40°C / 95°F General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight Flectromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature >45°C / 104°F Fan Shutdown Temperature >40°C / 95°F EN61000, EN55022, EN55024 Protection Level IP21 -20°C ~ +55°C / -4°F ~ 131°F	Protection			
Fan Shutdown Temperature <pre> </pre> <pre> General Specification Dimensions Dimensions Net Weight Fan Shutdown Temperature 215x130x85mm /8.46x5.12x3.35in Protection Level Fan Shutdown Temperature Protection Level Pr</pre>	Temperature Protection	75°C / 167 °F		
General Specification Dimensions 215x130x85mm /8.46x5.12x3.35in Net Weight 990g / 2.18lb Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Fan Start Temperature	>45°C / 104°F		
Dimensions $215x130x85mm / 8.46x5.12x3.35in$ Net Weight $990g / 2.18lb$ Electromagnetic CompatibilityEN61000, EN55022, EN55024Protection LevelIP21Operating Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C} / -4^{\circ}\text{F} \sim 131^{\circ}\text{F}$	Fan Shutdown Temperature	<40°C / 95 °F		
Net Weight Flectromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level Operating Temperature 990g / 2.18lb EN61000, EN55022, EN55024 IP21 -20°C ~ +55°C / -4 °F ~ 131 °F	General Specification			
Electromagnetic Compatibility EN61000, EN55022, EN55024 Protection Level IP21 Operating Temperature -20°C ~ +55°C / -4 °F ~ 131 °F	Dimensions	215x130x85mm /8.46x5.12x3.35in		
Protection Level IP21 Operating Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C} / -4^{\circ}\text{F} \sim 131^{\circ}\text{F}$	Net Weight	990g / 2.18lb		
Operating Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C} / -4^{\circ}\text{F} \sim 131^{\circ}\text{F}$	Electromagnetic Compatibility	EN61000, EN55022, EN55024		
	Protection Level	IP21		
Storage Temperature $-40^{\circ}\text{C} \sim +75^{\circ}\text{C} / -40^{\circ}\text{F} \sim 167^{\circ}\text{F}$	Operating Temperature	-20°C ~ +55°C / -4 °F ~ 131 °F		
	Storage Temperature	-40°C ~ +75°C / -40 °F ~ 167 °F		

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/°C /2V (default)	
Self-consumption	44mA/12V; 26mA/24V; 18mA/36V; 12mA/48V	
Environmental Parameters		
Operating Temperature Range	-35°C ~+45°C	
Humidity Range	≤ 95%, Non-condensing	
Altitude	<3000m	
General Parameters		
Protection Level	IP32	
Dimensions	260x180x75mm	315x195x80mm
Net Weight	2kg	2.7kg

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-HVM2.0KW-12V POW-HVM3.2KW-24V

230V; Single phase; Off-grid







POW-RELAB 3KE POW-RELAB 5KE POW-RELAB 10KE

220V; Single phase; Off-grid

POW-HVM3.5K-24V

220V; Single phase; Off-grid

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

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







POW-HVM6.2K-48V-LIP

220V; Single/three phase; off-grid; Max. parallel: 12

POW-HVM6.2K-PRO

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

POW-HVM6200W-48V

220V; Single phase; Off-grid







POW-SunSmart 8KL3 POW-SunSmart 10KL3 POW-SunSmart 12KL3

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



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-HVM11K-48V

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



SOLXPOW X3-12/20K

220V; Three phase; On-grid & off-grid; 2 MPPT



SOLXPOW X4-30/50K

220V; Three phase; On-grid & off-grid; 4 MPPT



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

220V; 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-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 10K POW-SunSmart 10KP

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

POW-SunSmart LV12K

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







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

110V; Single phase; Off-grid



Energy Storage Battery

POW-30/50AH-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-150AH-12.8V

Up to 4 sets in parallel; Up to 4 sets in series

POW-200AH-12.8V

Up to 4 sets in parallel; Up to 4 sets in series

POW-300AH-12.8V

Up to 4 sets in parallel; Up to 4 sets in series







POW-100AH-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-LIO48300-16S

Up to 16 units in parallel; Floor-standing







POW-HVB SERIES

POW-HVC SERIES

POW ESS-P100B215

Up to 5 units in series; Stackable; High-voltage

20~100 kWh; 100Ah; High Voltage

215kWh; 280Ah; High Voltage







Battery Accessory

BE24

Gel/Flood/AGM;



BE48

VRLA/LFP/Ni/CD/Ni/MH



Controller

3A-6V; 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-M60-PRO

MPPT; 12/24/36/48V; Lead acid & lithium battery POW-M60-MAX

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



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10 10





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







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



DC Electricity Usage Monitor AC Electricity Usage Monitor





Blade Fuse Block

Solar Connector



MC4-pliers1/2

MC4D-7

MC4D-4/6