

NEW ENERGY NEW LIFE

PV PRODUCT CATALOG

2024





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E-catalog 2024

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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

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	3A-6V	3	A-6V-S	3A-12\	/	3A-12V-S
Load work mode	Load working 24h	light o work sto	working with control: (Start after sunset, p working ore sunrise)	Load workin	g 24h	Load working with light+time control: (Start work only 8hs after sunset then stop work)
Rated charge current			3	A		
Rated discharge current			3	Α		
Max PV input power	DC	18W			DC36W	
Nominal system voltage	6	\vee		12V		
Selectable battery types		Seale	d lead acid, G	Gel, Flooded b	attery	
Temperature range			-10°C	~40°C		
Dimensions			60x25	x18mm		
Net weight			33	3g		
Controller Model	5A-12V		5A-1	2V-S		5A-12V-ST
Load work mode	Load working 24	4hs	control: (Sta	ng with light art work after op working sunrise.)	light- wo	ead working with +time control: (Start ork only 8hs after set then stop work)
Rated charge current	5A					
Rated discharge current	5A					
Max PV input voltage (VOC)			DC	22V		
Nominal system voltage			12	2V		
Selectable battery types	Sealed lead acid, Gel, Flooded battery					
Voltage drop of charging circuit	<0.2V					
Voltage drop of discharge circuit	<0.25V					
Equalization voltage			14.	.8V		
Bulk charging voltage	14.5V					
Boost charging voltage	14.2V					
Float charging voltage	13.8V					
Low voltage reconnect voltage	12.6V					
Low voltage disconnect voltage	11.2V					
Self-consumption	<10mA					
Temperature range	-35~+60 °C					
Dimensions	60x25x18mm					
Net weight			50)g		

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 82x58x21mm		
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	nvironment			
Operating Temperature Range	-35℃ ~+65℃			
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		
Max. Open Circuit Voltage of PV Array		
12V System	30V	
24V System	60V	
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/24V 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	12/24V		
Voltage range of the battery		8~32V	
Max. open voltage of PV module	60V	75V	100V
Battery type	User-defin	e, Sealed, Flooded, GE	L, LiFePO4
Equalized charging voltage		nce-fee lead acid batt Lead acid flooded batt	
Absorption charging voltage	Maintenance-fee lead acid battery 14 4V GEL: 14.2; Lead acid flooded battery: 14. 6V		
Floating charging voltage	Maintenance-fee lead acid battery GEL, Lead acid flooded battery: 13.8V		
Low voltage reconnection	Maintenance-fee lead acid battery GEL, Lead acid flooded battery: 12.6V		
Low voltage disconnection	Maintenance-fee lead acid battery GEL. Lead acid flooded battery: 10.8V		
Static loss	≤ 9.2mA 12V; ≤ 11.7mA 24V		
High voltage disconnection		16V (24V x 2)	
Duration of absorption charging		2 Hours	
Light control voltage	5V		
Charge loop voltage drop	≤ 0.29V		
LCD Temperature	-20° C~+70° C		
Operating Temperature	-20° C-+55° C (To run at full rated current continuously)		
Working humidity	≤ 95% 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 Open Voltage of PV Module	100V			
Max. Input Power:				
For 12V system	≤ 360W	≤ 720W	≤ 960W	
For 24V system	≤ 720W	≤ 1440W	≤ 1920W	
For 36V system	≤ 1080W	≤ 2160W	≤ 2880W	
For 48V system	≤ 1440W	≤ 2880W	≤ 3840W	
Charge Specification				
Charge Algorithm	3-Stages			
Battery Type	Lithium and Lead Acid Battery, support user define			
Nominal System Voltage	12V/24V/36V/48V			
Rated Charging Current	30A	60A	80A	
Self-consumption	≤ 20mA			
Output Specification				
Rated Output Current	20A	35A	50A	
USB Interface		5V/2A*2		
Environmental Specification				
Operating Temperature Range	-20°C ~+55°C			
Humidity Range	≤ 90%, Non-condensing			
General Specification				
Dimension	187x94x49mm	187x132x60mm	187x132x60mm	
Net weight	0.49kg	0.77kg	0.79kg	

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 Open Voltage of PV Module	160V		
Max. Input Power:			
For 12V system	720W 20-80Vdc;		
For 24V system	1440W 37-105Vdc;		
For 36V system	2100W 50-160Vdc;		
For 48V system	2800W 72-160Vdc;		
Output specification			
Rated output current	6A		
Max. DC output current	8A		
Max. capacitive load capacity	10000μF		
General Specification			
Temperature protection	80℃		
Operating temperature	-35°C ~45°C		
Humidity	≤ 95%, Non-condensing		
Acoustic noise	≤ 40dB		
Dimension	230x165x72mm		
Net weight	1.33kg		

New Arrival



- 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 Open Voltage of PV Module	160V	
Max. Input Power:		
For 12V system	720W 20-80Vdc;	
For 24V system	1440W 37-105Vdc;	
For 36V system	2100W 50-160Vdc;	
For 48V system	2800W 72-160Vdc;	
Output Specification		
Rated output current	25A	
Max. DC output current	30A	
Max. capacitive load capacity	10000μF	
General Specification		
Temperature protection	80℃	
Operating temperature	-35°C ~45°C	
Humidity	≤ 95%, Non-condensing	
Acoustic noise	≤ 40dB	
Dimension	230x165x72mm	
Net weight	1.45kg	



Model	HHJ60-PRO	
Solar Input Parameters		
Max. Solar Array Open-Circuit Voltage	160V	
Maximum Input Power:		
For 12V System	720W, 20V~80V	
For 24V System	1440W, 37V~105V	
For 36V System	2100W, 50V~160V	
For 48V System	2800W, 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	12W24W36W48V (Auto detect)	
Electromagnetic Compatibility	990g / 2.18lb	
Protection Level	IP21	
Operating Temperature	-20°C ~ +55°C / -4 °F ~ 131 °F	
Storage Temperature	-40°C ~ +75°C / -40 °F ~ 167 °F	

New Product Release



- 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. Open Circuit Voltage of PV Array	160V		
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 ²	~80V	
For 24V System	37V~	105V	
For 36V System	50V~		
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	≤ 9	8%	
Max. Power Point Tracking Efficiency	>9'	9%	
Temperature Compensation	-3mV/°C /2V	′ (default)	
Self-consumption	44mA/12V; 26mA/24V;	18mA/36V; 12mA/48V	
Environmental Parameters			
Operating Temperature Range	-35℃	~+45°C	
Humidity Range	≤ 95%, Non-	-condensing	
Altitude	<3000m		
General Parameters			
Protection Level	IP32		
Dimensions	260x180x75mm	315x195x80mm	
Net Weight	2kg	2.7kg	



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	3s@ ≥ 150% Load; 5s@100%~150% Load		
Surge Capacity 2*rated power for 5 seconds	2*rated power for 5 seconds		
No Load Power Consumption <28W	<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			

HVM Solar Inverter

Max. 80A Charging



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



Inverter Model	POW-HVM2H-12V-N	POW-HVM3.2H-24V-N	
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	230Vac		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50/60Hz (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	30~400Vdc		
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	

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 (APL)		
AC Output (Off-grid)			
Rated Output Power	3000W	5000W	10000W
Peak Power	9000W	15000W	30000W
Output Frequency	50Hz/60Hz		
Peak Efficiency	>98%		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	24V 48V		
AC Charging & Solar Charging 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 60~150Vdc		
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	51kg



110Vac Low Frequency Inverter



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

Inverter Model	POW-RELAB 3KU	POW-RELAB 5KU	POW-RELAB 10KU
AC Input			
Input Voltage Waveform	Sinusoidal (Utility or generator)		
Nominal Input Voltage	110Vac		
Input Voltage Range	77~132Vac		
Nominal Input Frequency	50Hz/60Hz		
Switching Time	≤ 10ms (UPS); ≤ 20ms (APL)		
AC Output (Off-grid)			
Rated Output Power	3000W	5000W	10000W
Peak Power	9000W	15000W	30000W
Output Frequency	50Hz/60Hz		
Peak Efficiency	>98%		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	24V 48V		
AC Charging & Solar Charging 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 60~150Vdc		
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	51kg

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 Specification		
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage	24V	48V	
Charging Voltage Range	20~33Vdc	40~60Vdc	
AC Charge & PV Charge Mode			
Charging Algorithm	3-Stages		
Max. AC Charging Current	40Amp		
Max. PV Array Power	4000W	5500W	
PV Array MPPT Voltage Range	120~400Vdc	120~450Vdc	
Max. PV Array Open Circuit Voltage	450Vdc	500Vdc	
Max. PV Charging Current	80Amp		
General Specification			
Operation Temperature	-10°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	230Vac±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=230Vac)	
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	

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 and.
- 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 (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	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 (@\	/I/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)	120Amp	
AC Output (On-Grid)		
Nominal Output Voltage	220/230/240Vac	
Feed-in Grid Voltage	195~253Vac	
Feed-in Grid Frequency	49~51±1Hz/59~61±1Hz	
Nominal Output Current	18.2A 26.9A	
General Specification		
Operation Temperature Range	-10°C	~50°C
Dimension	110x334	x423mm
Net Weight	9.5kg	10kg

Max. 150A Charging



- 55~450Vdc wide voltage range for PV access.
- Built-in 150A MPPT (Max. PV) solar charger.
- Anti-dusk kit for harsh environment. (Optional).
- Built-in lithium battery automatic activation.
- Unique glass top cover design.
- Compatible with 24V/48V lithium-ion and lead-acid battery.
- Higher output power up 4500W/6500W, output power factor of 1.0.
- No derating when the AC input Voltage is greater than 170V.
- Max. solar charging efficiency up to 98%.



Inverter Model	POW-HVM4.5K-24V	POW-HVM6.5K-48V
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 (Au	to detection)
Efficiency	>95% (Rated R load,	battery full charged)
Transfer Time	10ms typical (UPS); 20	ms typical (Appliances)
AC Output (Back-Up)		
Rated Output Power	4500VA/4500W	6500VA/6500W
Output Voltage Regulation	230Vac±5%	Single phase
Output Frequency	50Hz c	or 60Hz
Peak Efficiency	94%	
Overload Protection	5s@ ≥ 150% load; 10s@110%~150% load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	<35W	<50W
Battery Specification		
Battery Type	Lithium and Lead Acid Ba	attery, support user define
System Voltage	24V 48V	
AC Charge & PV Charge Mode		
Charging Algorithm	3-St	ages
Max. AC Charging Current	80Amp (@VI/P=230Vac)	
Max. PV Array Power	6000W	6500W
PV Array MPPT Voltage Range	55~450Vdc	
Max. PV Array Open Circuit Voltage	450Vdc	
Max. Charging Current (AC+PV)	150A	130A
Efficiency	98%	
Standby Power Consumption	2W	
General Specification		
Operation Temperature Range	0°C ~55°C	
Storage Temperature	-15°C ~60°C	
Dimension	468x318	x159mm
Net Weight	7.5kg	8.5kg

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	

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	

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	Sinu	usoidal (Utility or genera	itor)
Nominal Input Voltage	230	Vac/400Vac (three phas	se)
Input Voltage Range	Phase: 1	70Vac~280Vac, Line: 3	05~485V
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; 10s@ > 125%±10% load		
Battery Parameters			
Battery Type	Lithium and Lead Acid Battery, support user define		
System Voltage		48V	
AC Charging & Solar Charging Mo	de		
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		

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	

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 (Utility or generator)	
Nominal Input Voltage	120	Vac
Input Voltage Range	90~14	40Vac
Nominal Input Frequency	50/6	0Hz
Transfer Time	10ms t	typical
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%load	
Load Capacity of Motors	6HP	
Battery Specification		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	48	3V
Charging Voltage Range	40~	60V
AC Charge & PV Charge Mode		
Charging Algorithm	3-Sta	ages
Max. AC Charging Current	1204	Amp
Max. PV Array Power	11000W	
PV Array MPPT Voltage Range	125~425Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Charging Current (AC+PV)	200Amp	
General Specification		
Operation Temperature Range	-10°C ~55°C , >45°C derated (-14~131 °F ; 113 °F derated)	
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 230Vac.
- 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	41.5 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 715mm	
Net Weight	45kg	
	LIL 17/19A JEEF 15/7_1 ECC	

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.



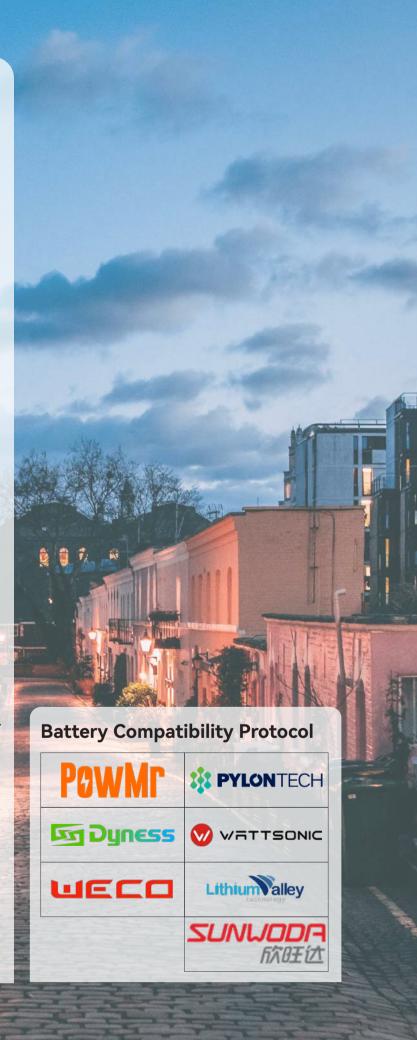
Inverter Model	SOLXPOW X3-12K	SOLXPOW X3-20K
PV Input		
Max. PV Array Power	18000W	30000W
PV Input Voltage Range	135~10	00V
PV MPPT Voltage Range	200~95	50V
Max. PV Input Current	30A/30A	30A/30A
Battery Specification		
Battery Type	Lithium Battery	(with BMS)
Battery Voltage Range	135~75	50V
Max. Discharging 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%ln	
AC Output (Back-up)		
Rated Output Power	12000W	20000W
Nominal Input Voltage	L/N/PE; 220/230/240V	
Nominal Frequency	50Hz/60	0Hz
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	
D: .	534×418×210mm	
Dimension	331 113 2	

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.
- 135-750V 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~	950V	
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	45000W	75000W	
Nominal Input Voltage	L/N/PE; 220	0/230/240V	
Nominal Frequency	50Hz/	/60Hz	
Max. Output Current	50A	83A	
THD	<3% @Rated	output power	
DCI	<0.5	5%In	
AC Output (Back-up)			
Rated Output Power	45000W	75000W	
Nominal Input Voltage	L/N/PE; 220/230/240V		
Nominal Input Frequency	50Hz/	/60Hz	
Max. Output Current	50A	83A	
Voltage Harmonic Distortion	<3% @Lin	near load	
General Specification			
Over Voltage Category	PV: II N	Aain: III	
IP Class	IP65		
Parallel Operation Function	To be developed		
Dimension	800×620×300mm		
Net Weight	72.0	0kg	

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 -12.8V	POW-100AH- 12.8V-MINI	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		10~14.6V	10.8~14.6V	10.8~14.6V	
Charging Voltag	е	14.6V	14V	14.6V	
Max. Charging Current		50A	100A	150A	
Max. Discharging Current		100A	100A	150A	
Max. No. of Series Connections		4 PCS	4 PCS	4 PCS	
Max. No. of Parallel Connections		4 PCS	4 PCS	4 PCS	
General Parameters					
Cycle Life		6000 times (0.2C, 25° C@80% DOD)			
Casing Material		ABS			
Operation Temperature	Charging	0°C ~50°C	0°C ~55°C	0°C ~55°C	
	Discharging	-10°C ~60°C	-20°C ~55°C	-20°C ~55°C	
Dimension		325x170x215mm	260x169x211mm	330x171x215mm	
Net Weight		11.5kg	10kg	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 Specifications					
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	e	14V	14.6V	29.2V	
Max. Charging Current		200A	150A	100A	
Max. Discharging Current		200A	250A	100A	
Max. No. of Series Connections		4 PCS	4 PCS	2 PCS	
Max. No. of Parallel Connections		4 PCS	4 PCS	2 PCS	
General Parameters					
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 Battery

100AH~ 200AH



- Support up to 15 independent modules for parallel use.
- A+ battery cell, precise combination.
- Continuously out 100A high current.
- Embedded intelligent BMS provide protection.
- Superior quality assurance, 5 years manufacturer's warranty.
- 80% DOD cycles for 6000 times.
- External weak current switch reduces power consumption.
- A full range of protection functions.



Battery Model			POW-LIO48100-15S		Po	OW-LIO48200-15S	
Capacity		≥ 4.81	≥ 4.8KWH		≥ 9.6KWH		
Nominal Voltage	е		48V				
Charging Voltag	je		54.75V				
Nominal Chargi	ng Current		20	A	40A		
Max. Charging (Current		10	0A		100A	
Max. Dischargin	g Current		10	0A		100A	
Cycle Life			≥ 6000 Times @80%DOD, 25°C				
Installation			Wall-mounted battery				
Parallel				Up to 15 units in parallel			
Warranty			5 years				
Communication		RS485/CAN					
Operation	Charge		0° C ~60° C				
Temperature	Discharge	<u>.</u>	-10° C~65° C				
Dimension			440×170×	440×170×510mm		440×206×670mm	
Net Weight			40kg			72kg	
BMS communication protocol matching							
Powl	Ar	G خ	ROWATT 瑞 瓦 特	Dey	'e	SMA	
SMK SO Energy · Anytime ·			Voltronic Power Advancing Power	wictron,	energy	S FAR	
GOOD	ME I	.U(POWER	MEGARE	VO	** PYLONTECH	
MUST美	世乐	5/1	KO三科®	SRN	E硕日	Sacolar	

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.



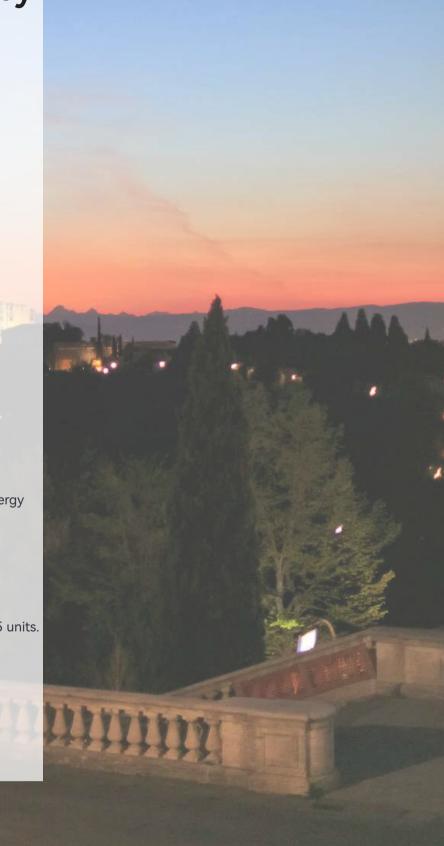
Battery Model	POW-LIO48100-16S	POW-LIO48200-16S	
System Voltage	51.2V		
Capacity	100Ah	200Ah	
Nominal Energy	5.12KWh	10.24KWh	
Constant Voltage charging Voltage	58.	4V	
Max. Discharge Cutoff Voltage	43.	2V	
Recommended Discharge Cutoff Voltage	48V		
Max. Charging Current	100A	150A	
Recommended Charging Current	40A	40A	
Max. Discharge Current	100A	150A	
Max. Parallel Connection of Batteries	16		
Communication Interface	RS232/RS485/C	AN/Dry Contac	
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)	510x440x170mm	670x450x207mm	
Net Weight	44kg	87kg	
BMS communication protocol matching			
POWNT	victron ener	GROWATT 古 瑞 瓦 特	
GOODME PYLON	TECH Voltronic Power	S FAR	
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SRNE 硕日			

Floor-standing Lithium Iron Phosphate Battery

280Ah Rated Capacity



- High-capacity, high-safety lithium iron phosphate cells.
- Easy installation and configuration.
- Sleek appearance, suitable for home energy storage scenarios.
- Built-in BMS ensures safe and efficient system operation.
- 6000 cycles lifespan.
- Supports parallel connection of up to 15 units.
- Easily compatible with communication protocols of most inverter brands.



Battery Model	POW-LIO51300-16S
System Voltage	51.2V
Capacity	280Ah
Discharge Cut-off Voltage	≤ 44.8V
Charging Voltage	56V
Charging Cut-off Voltage	58.4V
Internal Resistance	≤ 12mΩ
Max. Charging Current	200A
Max. Discharging Current	200A
Max. Parallel Quantity	15
Operating Temperature	Charge: 0~55°C ; Discharge: -20~55°C
Communication Port	RS232/RS485/CAN
Cycle Life	≥ 6000 Times @80%DOD, 25°C
Nominal Operating Altitude	
Protection Rating	
Recommended Operating Environment	
Dimensions (LxWxH)	

BMS communication protocol matching					
POWM	Deye	GOODME	GROWATT 古 瑞 瓦 特		
victron energy	SERMATEC	W HUAWEI	LU POWER		
MUST美世乐	Voltronic Power Advancing Power	swa solis	SUNGROW		
S FAR	invt	SOROTEC Power Solutions Expert			

Wall Mounted

LiFePO4 Battery



- Utilizes high-quality Grade A cells for integration.
- Built-in 150A BMS for charging management.
- Cycle life of ≥ 6000 times.
- Supports remote monitoring via upper computer.
- High stability and safety, suitable for household solar energy systems.
- Built-in control panel for easy monitoring of data and status.



Battery Model	POW-LIO51200-150A		
System Voltage	51.2V		
Capacity	200AH		
Constant Voltage Charging Voltage	57.6V		
Float Charging Voltage	56V		
Max. Discharge Cutoff Voltage	43.2V		
Recommended Discharge Cutoff Voltage	48V		
Max. Charging Current	150A		
Recommended Charging Current	40A		
Max. Discharge Current	150A		
Recommended Discharge Current	40-120A		
Max. Parallel Connection of Batteries	16		
Communication Interface	RS232/RS485/CAN		
Cycle Life	≥ 6000 Times @80%DOD, 25°C		
Operating Temp	Charging: 0~60° C; Discharging: -10° C~65° C		
Nominal Operation Altitude	< 3000m		
Recommended Operation Environment	Indoor		
Battery Dimensions (LxWxH)	780*495*217mm		
Net Weight	94.5kg		
BMS communication protocol matching			
POWM	wictron energy 古		
GOODME PYLONTECH	Voltronic Power Advanding Power		
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Residential Energy Storage

Stacked LiFePO4 Battery



- Integration of A-grade Lithium Iron Phosphate battery cells.
- Module incorporates a high-precision BMS unit.
- External cold-rolled plate metal casing with internal shock-absorbing filler structure.
- High safety and reliability for household standards.
- Each battery module is 100AH, with a maximum of 16 modules in parallel.
- Stackable design, maximizing vertical space utilization.
- ≥ 6000 cycles of cycle life.
- Stackable installation, plug-and-play wiring, easy operation.



Battery Model	POW-LIO51400-16S
System Voltage	51.2V
Capacity (for 4 battery module in parallel)	400AH (4x100AH)
Constant Voltage Charging Voltage	56.8V
Float Charging Voltage	56V
Max. Discharge Cutoff Voltage	43.2V
Recommended Discharge Cutoff Voltage	46.4V
Max. Charging Current	100A
Recommended Charging Current	20A
Max. Discharge Current	100A
Recommended Discharge Current	50A
Max. Parallel Quantity	16
Communication Interface	RS232/RS485/CAN
Cycle Life	≥ 6000 Times @80%DOD, 25°C
Operating Temp	Charging: 0~60° C; Discharging: -10° C~65° C
Nominal Operation Altitude	< 3000m
Recommended Operation Environment	Indoor
Dimensions	635x500x800mm
Net Weight	206kg
Single Battery Dimensions (LxWxH)	635x500x155mm
Top Cover Dimensions (LxWxH)	635x500x80mm
Base Dimensions (LxWxH)	635x500x100mm
Single Battery Net Weight	47kg
Top Cover Net Weight	8kg
Base Net Weight	10kg
BMS communication protocol matching	

High-voltage

Stacked Battery



- Support 8 modules in Series.
- Modules operate independently for system safety.
- Pulley bottom, manual switch, and visual supervision interface.
- Cover all mainstream protocols.
- 4 times long static and 8 consistency screening.
- Nano-coating and self-healing technology construct the LFP channel.



Battery Model	POW-HVT -5	POW-HVT -10	POW-HVT -15	POW-HVT -20	POW-HVT -25	POW-HVT -30
Electronic Specificatio	ns					
Rated Voltage	51.2V	102.4V	153.6V	204.8V	256V	307.2V
Rated Capacity	100Ah@25° C					
Energy	5120Wh	10240Wh	15360Wh	20480Wh	25600Wh	30720Wh
Months Self Discharge			<3	3%		
Charge Efficiency		99.5%@ 0.2C				
Discharge Efficiency		96-99%@ 1C				
Internal Resistance		:	≤ 50mΩ (Fully	charged, 25° C	<u>;)</u>	
Charge Voltage	56.8V	113.6V	170.4V	227.2V	284.0V	340.8V
Standard Charge Mode	0.2C A Cor drops	0.2C A Constant Current to 57V, then Constant Voltage 57V , until the current drops to 0.02CA, before use, rest 30 minutes (25° C±2° C, <75%RH)			the current %RH)	
Charge Current			20)A		
Maximum Charge Current		50A				
Charge Cut-off Voltage	58.4V	116.8V	175.2V	233.6V	292.0V	350.4V
Continuous Discharge Current	100A					
Maximum Pulse Current		200A (<1s)				
Discharge Cut-off Voltage	44.8V	89.6V	134.4V	179.2V	224V	268.8V
Operating Temperatu	re Range					
Nominal Operating Temp			25° C± 3° C	(77° F± 5° F)		
Discharge Temp		- 20° C~ 60° C (-4° F ~ 140° F)				
Charge Temp	0° C~ 45° C (32° F ~ 113° F)					
Storage Temp		0° C~ 40° C (32° F ~ 104° F)				
General Information						
Cycle life		4	.000 cycles @ (0.2C 100%D.O.	D	
Water Dust Resistance	IP50					
Communicate Protocol	RS485/ CAN					
SOC	Screen/LED/PC Software					
Cells	16 Strings					
Dimensions (Single Battery Unit)	640x400x160mm (23.84x14.9x5.96inch)					
Patton	52kg (114.64lbs)±2kg					
Approx. Weight Controller	20kg (44.09lbs)±2kg					

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 342.9V 4		432V	
Voltage Range	172.8~224V	259.2~336V	345.6~448V	432~560V	
Charging Cut-off Voltage	224V	336V	448V	560V	
Max. Charging Current	50A				
Max. Discharging Current	50A				
Max. Stacking Quantity	5				
Energy Capacity Expansion Limit	25kWh				
Charging Temperature	0°C ~60°C (Under 0°C extra heating mechanism)				
Discharging Temperature	-20°C ~60°C (Under 0°C work with reduced capacity)				
Communication Port	RS232, RS485, CAN				
Cycle Life	≥ 6000 Times @80%DOD, 25°C				
Protection Rating	IP65				
Dimensions (LxWxH)	636x185x1065 mm	636x185x1418 636x185x1770 636x mm mm		636x185x2122 mm	
Net Weight	~130kg	~180kg	~230kg	~280kg	
BMS Communication Protocol Matching					
POWMr =			RDWATT 瑞 瓦 特		
MEGAREVO 💠	Aiswel		and a series	Solis	
sunways					

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

All-in-one Energy Storage System

Max. energy storage capacity of 20.48kWh



- Integrated solar energy storage system
- Rated 5600W pure sine wave AC output
- Wide photovoltaic input voltage range of 120~500V
- Maximum charging current of up to 80A
- Each battery module has a capacity of 2.56 kWh, supporting up to 8 parallel connections
- A+ grade lithium iron phosphate (LiFePO4) battery cells
- Stackable installation, saving approximately 60% of installation wiring time
- LCD display for comprehensive monitoring of system status



Inverter Module	POW-ESS5S		
Output			
Rated Output Power	5600W/5600VA		
Max. Peak Power	10000VA		
Maximum Efficiency	92%		
Wave Form	PSW(Pure Sine Wave)		
Rated Output Voltage	220Vac(single-phase)		
Power saving mode	Yes		
Solar Input			
Solar Charge Type	MPPT		
Max. Solar Array Power	6000W		
Max. Solar Open Circuit Voltage	500Vdc		
Grid / Generator Input			
Input Voltage Range	90~280Vac		
Bypass Overload Current	40A		
Battery Charging			
Max. Solar Charging Current	A08		
Max. Grid / Generator Charging Current	60A		
General			
Dimension	135*480*330mm		
Weight(Kg)	~13kg		
Battery Module	POW-ESS5S		
Battery Power	2.56kWh		
Rated Voltage	51.2V		
Rated Capacity	50Ah		
Battery Type	Prismatic LFP		
Cycling Life Span	≥ 6000 (80%DOD, 0.5C, 25° C)		
Max.Parallel Capacity	8 units (up to 20.48kWh)		
Dimension	135*480*330mm		
Weight(Kg)	~25Kg		
Standard	UN38.3, MSDS, UL1973, IEC62619:2017, EN IEC61000-3-2, EN IEC61000-6-1,RoHS		

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

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 SERIES

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



Pstar SERIES

PWM; 12/24/36/48V; 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



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



Solar Charger Inverter

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

220V; Single phase; Off-grid



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

110V; Single phase; Off-grid



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

220V; Single phase; Off-grid



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

110V; Single phase; Off-grid



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

220V; Single phase; Off-grid



POW-LVM3.2K-24V

110V; Single phase; Off-grid



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

220V; Single phase; On-grid & off-grid; 2 AC output



POW-HVM4.5K-24V POW-HVM6.5K-48V

220V; Single phase; Off-grid



POW-SunSmart SP5K

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



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

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



POW-HVM10.2M

220V; Single phase; On-grid & off-grid; 2 AC output



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

POW-SunSmart LV12K

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







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



Battery and Battery Accessory

POW-100AH-12.8V

Support 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-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-LIO48100-15S POW-LIO48200-15S

Up to 15 unit in parallel; Wall-mounted



POW-LIO48100-16S POW-LIO48200-16S

Up to 16 unit in parallel; Wall-mounted



POW-LIO51300-16S

Up to 15 unit in parallel; Floor-standing



POW-LIO51200-150A

Up to 16 unit in parallel; Wall-mounted



POW-LIO51400-16S

Up to 16 unit in parallel; Stackable



BE24 BE48

BE24: Gel/Flood/AGM;

POW-HVT SERIES

Up to 8 unit in series; Stackable; High-voltage



POW-HVB SERIES

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







All-in-one Energy Storage System

POW-ESS5S

220V; 2.56kWh; 5600W/VA



