

Technology change future!



Solar Energy & Storage system

Solar Energy System



Safe



Plug & Play



Uninterrupted



PV Charging



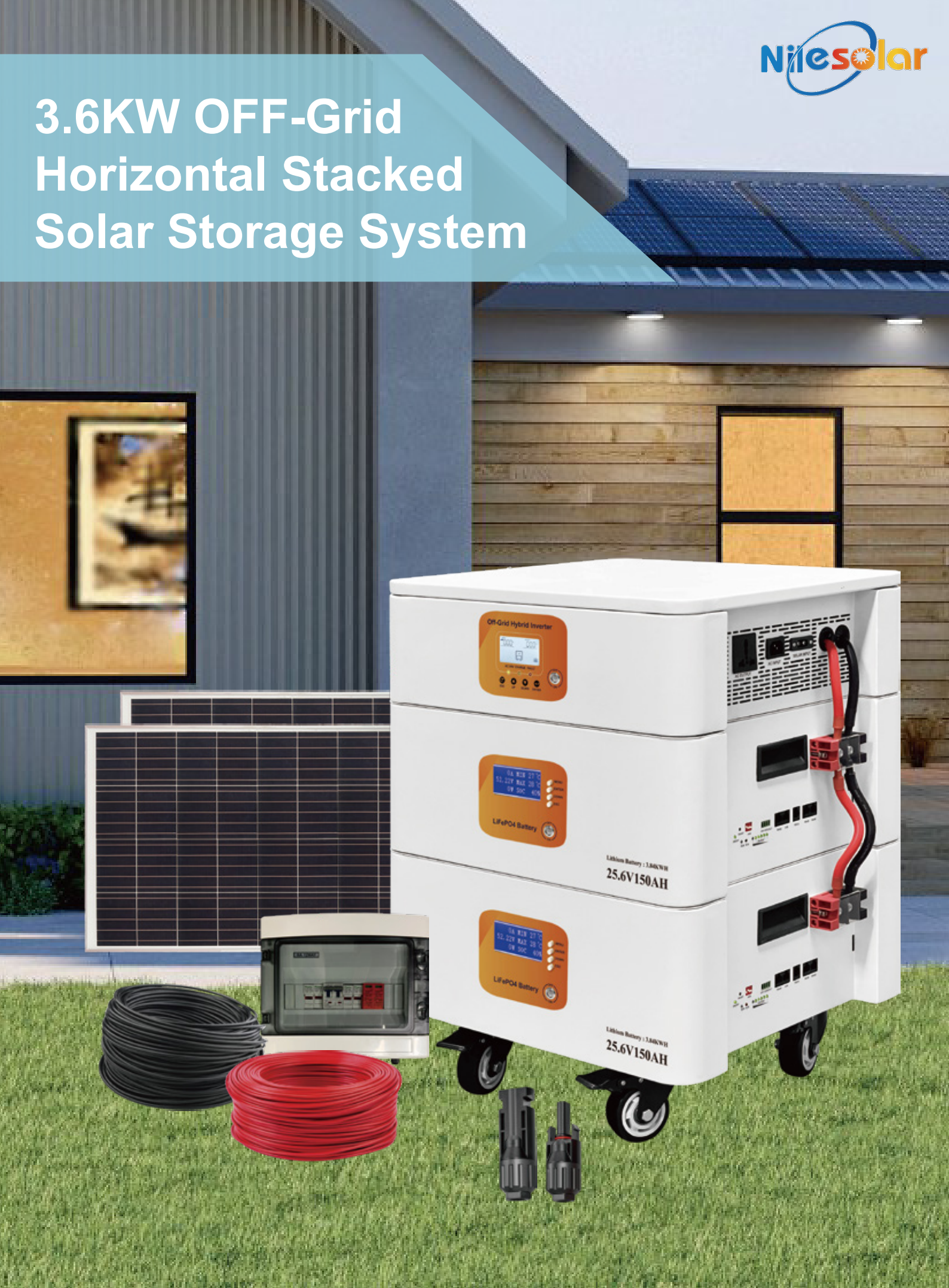
Efficiency

All-In-One Movable Power Station



Inverter Parameters		3.6KW	P6KW	
Power		3.6KVA /3.6KW	6KVA /6KW	
Maximum photovoltaic input power		3.6KW	9KW	
Two AC outputs		Yes		
Maximum one-way AC output power		3.6KVA / 3.6KW	6KVA / 6KW	
Maximum two-channel AC output power		3.6KVA / 3.6KW	6KVA / 6KW	
Maximum AC total output power		3.6KVA / 3.6KW	6KVA / 6KW	
Parallel machine function		NO		
Lithium-ion communication		NO	RS232 / RS485 / Dry Contact	
Lithium battery activation		Yes (photovoltaic or mains)		
Input				
Rated voltage		230VAC		
Voltage range		170-280VAC (computer application); 90-280VAC (household appliances)		
Frequency		50 / 60 Hz (automatic detection)		
Output				
Rated voltage		220/230VAC±5%	220/240VAC±5%	
Instantaneous power		5400VA	9000VA	
Frequency		50 / 60 Hz		
Output waveform		Pure Sine Wave		
Switching time		10ms (computer application); 20ms (household appliances)		
Peak efficiency (PV to INV)		96%		
Peak power (Battery to INV)		93%		
Overpower protection		5s@>=140% load; 10s@100%~140% load		
Peak coefficient		3:1		
Power factor		0.6~1 (capacitive or inductive)		
Grid connection mode		Not support		
PV Charging & AC Charging				
Charge mode		MPPT		
Maximum photovoltaic input power		5000W	9000W	
Maximum photovoltaic open circuit voltage		500VDC		
MPPT voltage range		40VDC~450VDC	60VDC~450VDC	
Maximum photovoltaic input current		18A	27A	
Maximum photovoltaic charging current		100A	120A	
Maximum mains charging current		100A	120A	
Maximum charging current		100A	120A	
Battery Parameters		7.68kW.h	16kW.h	Remarks
General				
Nominal Capacity		300Ah	314Ah	0.5C / 0.3C charging, 1C discharging, 25 ℃
Rated Voltage		25.6V	51.2V	8S / 16S
Discharge Cut-off Voltage		22V	44V	
Charging Cut-off Voltage		26.6V	56.4V	
Float charging voltage		27V	56V	
Continuous charging maximum current		100A	160A	
Maximum current for continuous discharge		150A		
Battery Energy		7680Wh	16000Wh	
Rated Output Power		3600W	6000W	
Communication Interface		NO	RS232 / RS485 / Dry Contact	
Discharge working temperature		-15℃~50℃		
Charging working temperature		0℃~50℃		
Relative Humidity		5~90%		
Altitude		≤4000m		
Protection Grade		IP21		
Storage Time		Keep charging at least once every 3 months		
Number of cycles		≥6000 times		75% DOD 25℃
Main Parameters For BMS				
Overcharge Protection	Overcharge detection voltage (V)	Monomer 3.65 ± 0.05		
	Overcharge protection delay (S)	0.5		
Over Discharge Protection	Overdischarge detection voltage (V)	Monomer 2.7 ± 0.05		
	Overdischarge detection delay (S)	0.5		
Overcurrent Protection	Greater than rated current	1.1%		
Overcurrent Recovery	Disconnect Load	/		
Self Consumption Power	Working Current (mA)	≤10		
	Sleep Current (uA)	≤50		
Physical Property				
Product Size, length x width x height (mm)		740*400*240	1050*460*240	
Package Size, length x width x height (mm)		765*465*400	1085*520*300	
Net Weight (Kgs)		65.75	122	
Gross Weight (Kgs)		77.75	124	
LCD		Yes		
Application Environment				
Operating temperature range		-10℃ to 55℃		
Storage temperature range		-15℃~ 60℃		
Humidity		5% to 95% relative humidity (no frost)		

3.6KW OFF-Grid Horizontal Stacked Solar Storage System



Battery Parameters		3.84kW.h	7.68kW.h	11.52kW.h	15.36kW.h	Remarks
General						
Nominal Capacity		150AH	300AH	450AH	600AH	0.5C charging, 1C discharging, 25 ℃
Rated Voltage		25.6V				8S
Discharge Cut-off Voltage		22V				
Charging Cut-off Voltage		26.6V				
Float charging voltage		27V				
Continuous charging maximum current		100A				
Maximum current for continuous discharge		150A				
Battery Energy		3840Wh	7680Wh	11520Wh	15360Wh	
Rated Output Power		3600W				
Communication Interface		RS232/RS485/CAN				
Discharge working temperature		-20 ℃ ~ 55 ℃				
Charging working temperature		-0 ℃ ~ 45 ℃				
Relative Humidity		5 ~ 90%				
Altitude		≤4000m				
Protection Grade		IP22				
Storage Time		Keep charging at least once every 3 months				
Battery Dimensions(mm)		450*420*180(Middle) & 450*420*260(Bottom)				
Carton Dimensions(mm)		485*515*360(Middle) & 485*515*415(Bottom)				
Net Weight(kgs)		33(Middle); 35(Bottom)				
Gross Weight(kgs)		40.85(Middle);42.85(Bottom)				
Number of cycles		≥6000 times				75% DOD 25 ℃
Main Parameters For BMS						
Overcharge Protection	Overcharge detection voltage (V)	Monomer 3.65 ± 0.05				
	Overcharge protection delay (S)	0.5				
Over Discharge Protection	Overdischarge detection voltage (V)	Monomer 2.7 ± 0.05				
	Overdischarge detection delay (S)	0.5				
Overcurrent Protection	Greater than rated current	1.1%				
Overcurrent Recovery	Disconnect Load	/				
Self Consumption Power	Working Current (mA)	≤10				
	Sleep Current (uA)	≤50				
Inverter Parameters		All 3.6KW				
Power		3.6KVA /3.6KW				
Maximum photovoltaic input power		3.6KW				
Two AC outputs		Yes				
Maximum one-way AC output power		3.6KVA / 3.6KW				
Maximum two-channel AC output power		3.6KVA / 3.6KW				
Maximum AC total output power		3.6KVA / 3.6KW				
Parallel machine function		NO				
Lithium-ion communication		Yes				
Lithium battery activation		Yes (photovoltaic or mains)				
Input						
Rated voltage		230VAC				
Voltage range		170-280VAC (computer application); 90-280VAC (household appliances)				
Frequency		50 / 60 Hz (automatic detection)				
Output						
Rated voltage		220/230VAC±5%				
Instantaneous power		5400VA				
Frequency		50/60 Hz				
Output waveform		Pure Sine Wave				
Switching time		10ms (computer application); 20ms (household appliances)				
Peak efficiency (PV to INV)		96%				
Peak power (Battery to INV)		93%				
Overpower protection		5s@ ≥140% load; 10s@100%~140% load				
Peak coefficient		3:1				
Power factor		0.6~1 (capacitive or inductive)				
Grid connection mode		Not support				
PV Charging & AC Charging						
Charge mode		MPPT				
Maximum photovoltaic input power		5000W				
Maximum photovoltaic open circuit voltage		500VDC				
MPPT voltage range		60VDC~500VDC				
Maximum photovoltaic input current		18A				
Maximum photovoltaic charging current		100A				
Maximum mains charging current		100A				
Maximum charging current		100A				
Physical Property						
Inverter & Carton Dimensions(mm)		450*420*150(Inverter); 520*500*230(Carton)				
Weight(kgs)		12.3(Net Weight); 13.7(Gross Weight)				
Communication interface		RS232/RS485/CAN				
LCD		Yes				
Application Environment						
Operating temperature range		-10℃ to 55℃				
Storage temperature range		-15℃~ 60℃				
Humidity		5% to 95% relative humidity (no frost)				

11KW OFF-Grid Horizontal Stacked Solar Storage System

- Focus On Industrial Design
- Modular Design
- Free Stacking to increase the battery pack
- High Safety
- Long Cycle Life
- Brand new and grade A LiFePo4 cell



Battery Parameters		15.36kW.h	30.72kW.h	46.08kW.h	61.44kW.h	Remarks
General						
Nominal Capacity		300AH	600AH	900AH	1200AH	0.3C charging, 1C discharging, 25 ℃
Rated Voltage		51.2V				16S
Discharge Cut-off Voltage		44V				
Charging Cut-off Voltage		58.4V				
Float charging voltage		56V				
Continuous charging maximum current		100A				
Maximum current for continuous discharge		200A				
Battery Energy		15360Wh	30720Wh	46080Wh	61440Wh	
Rated Output Power		10000W				
Communication Interface		RS232/RS485/CAN				
Discharge working temperature		-15 ℃ ~ 50 ℃				
Charging working temperature		0 ℃ ~ 50 ℃				
Relative Humidity		5 ~ 90%				
Altitude		≤4000m				
Protection Grade		IP21				
Storage Time		Keep charging at least once every 3 months				
Battery Dimensions(mm)		750*450*260(Middle);750*450*350(Bottom)				
Carton Dimensions(mm)		815*425*520(Middle);815*520*520(Bottom)				
Net Weight(kgs)		105.5(Middle); 110(Bottom)				
Gross Weight(kgs)		121(Middle); 127(Bottom)				
Number of cycles		≥6000 times				75% DOD 25 ℃
Main Parameters For BMS						
Overcharge Protection	Overcharge detection voltage (V)	Monomer 3.65 ± 0.05				
	Overcharge protection delay (S)	0.5				
Over Discharge Protection	Overdischarge detection voltage (V)	Monomer 2.7 ± 0.05				
	Overdischarge detection delay (S)	0.5				
Overcurrent Protection	Greater than rated current	1.1%				
Overcurrent Recovery	Disconnect Load	/				
Self Consumption Power	Working Current (mA)	≤10				
	Sleep Current (uA)	≤50				
Inverter Parameters		All 11KW PRO				
Power		11KVA / 11KW				
Maximum photovoltaic input power		11KW				
Two AC outputs		Yes				
Maximum one-way AC output power		11KVA / 11KW				
Maximum two-channel AC output power		5KVA / 5KW				
Maximum AC total output power		11KVA / 11KW				
Parallel machine function		Yes, channel 6				
Lithium-ion communication		Yes				
Lithium battery activation		Yes (photovoltaic or mains)				
Input						
Rated voltage		230VAC				
Voltage range		170-280VAC (computer application); 90-280VAC (household appliances)				
Frequency		50 / 60 Hz (automatic detection)				
Output						
Rated voltage		220/230VAC±5%				
Instantaneous power		22000VA				
Frequency		50/60 Hz				
Output waveform		Pure Sine Wave				
Switching time		10ms (computer application); 20ms (household appliances)				
Peak efficiency (PV to INV)		96%				
Peak power (Battery to INV)		93%				
Overpower protection		5s@>=140% load; 10s@100%~140% load				
Peak coefficient		3:1				
Power factor		0.6~1 (capacitive or inductive)				
Grid connection mode		Not support				
PV Charging & AC Charging						
Charge mode		MPPT				
Maximum photovoltaic input power		5000W*2				
Maximum photovoltaic open circuit voltage		500VDC				
MPPT voltage range		60VDC~500VDC				
Maximum photovoltaic input current		18A*2				
Maximum photovoltaic charging current		160A				
Maximum mains charging current		120A				
Maximum charging current		160A				
Physical Property						
Inverter & Carton Dimensions(mm)		750*450*180(Inverter); 825*530*260(Carton)				
Weight(kgs)		25.3(Net Weight); 28(Gross Weight)				
Communication interface		RS232/RS485/CAN				
LCD		Yes				
Application Environment						
Operating temperature range		-10℃ to 55℃				
Storage temperature range		-15℃~ 60℃				
Humidity		5% to 95% relative humidity (no frost)				

OFF-Grid Vertical Stacked Solar Storage System

- Pure Sine Wave Output
- Built-in BMS
- RS485 / RS232 / CAN
- Battery cycles>6000 times
- Support AC / DC priority output
- Support to expand the battery capacity

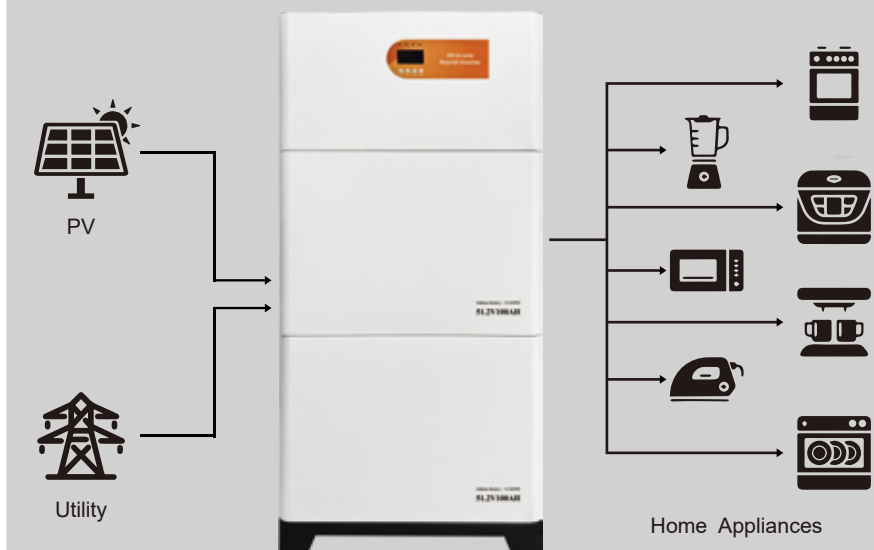
5.5KW
100AH

5.5KW
100AH
100AH



Priority Optional : PV / AC / Battery

System Topology Diagram



Model	Vertical 5KW.H		Vertical 10KW.H
Comprehensive Parameters			
Battery Voltage	40V~58.4V		
Storage Capacity	5120Wh	10240Wh	
Net Weight(Kgs)	68.6	120.4	
Colour	White		
External Dimension(mm)	Inverter: 600*318*210; Battery: 600*430*210		
Warranty	Inverter: 2 years, Battery: 5 years		
Battery Module Parameters			
Type of battery	LiFePO4		
Capacity	100AH	100AH*2	
Battery Cycle Life	6000		
Modular Structure	1P16S	1P16S*2	
Overall Characteristic			
Capacity for assembled cell discharging by 0.2C	≥100Ah		
Standard Charge Condition	Charge with 0.5C constant current and 58.4Vconstant voltage, charge to 58.4V,continue charging till current declineto ≤0.01C		
Maximum Charge Current	100A		
Maximum Discharge Current			
Internal Resistance	≤80mΩAssemblage Impedance		
Cycle Life	≥6000@25℃, 80%EOL		
Recommend Charging Temperature	0℃~50℃		
Recommend Discharging Temperature	-15℃~50℃		
Storage Temperature			
Humidity	0-90%		
Maximum Altitude	3000m		
Functional Configuration			
LED Panel (Light Emitting Diode)	YES		
Communication	RS485,CAN,RS232		
IP Rating	IP21		
Inverter	5KW		
LED Power Display	Traffic Light Display		
BMS Control	Control Battery Performance		
Gross Weight(Kgs)	83.6Kg	147.4Kg	
Package Size(mm)	680*510*300(Inverter) ; 685*515*400(Battery)		
Certification			
Safety	IEC62109-1, IEC62109-2,UL1741		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
RoHS	Yes		

All In One Hybrid Inverter

Output Rated Power: 3.6KW



Double Output



Lithium battery activation function



Double Input



Household



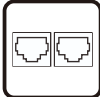
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PV 60-500Vdc



Pure Sine Wave



RS232
RS485

Model	All 3.6KW
Capacity	3.6KVA /3.6KW
Maximum PV Input Power	3.6KW
Twin AC Output Function	Yes
Maximum Main Output Power	3.6KVA / 3.6KW
Maximum Second Output Power	3.6KVA / 3.6KW
Maximum Total Output Power	3.6KVA / 3.6KW
Parallel Capability	Not Supported
Lithium Battery Communication	Yes (RS485)
Lithium Battery Activation	YES(By PV or Utility)
Built-in WIFI	Optional
Input	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
Output	
Nominal Voltage	220/230VAC±5%
Surge Power	22000VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency (PV to INV)	96%
Peak Efficiency (Battery to INV)	93%
Overload Protection	5s@>=140% load; 10s@110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
Battery	
Battery Voltage	24VDC
Maximum Discharge Current	220A
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger & AC Charger	
Solar Charger TYPE	MPPT
Max.PV Array Power	5000W
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max. Solar Input Current	18A
Max. Solar Charge Current	100A
Max. AC Charge Current	100A
Max. Charge Current	100A
Physical	
Dimensions, length x width x height (mm)	456*299*111 (Inverter) ; 485*340*165 (Package)
Net weight (Kgs)	5.5
Communication interface	RS232/RS485/Dry-Contact
LCD	Yes
Application Environment	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21

ALL Series

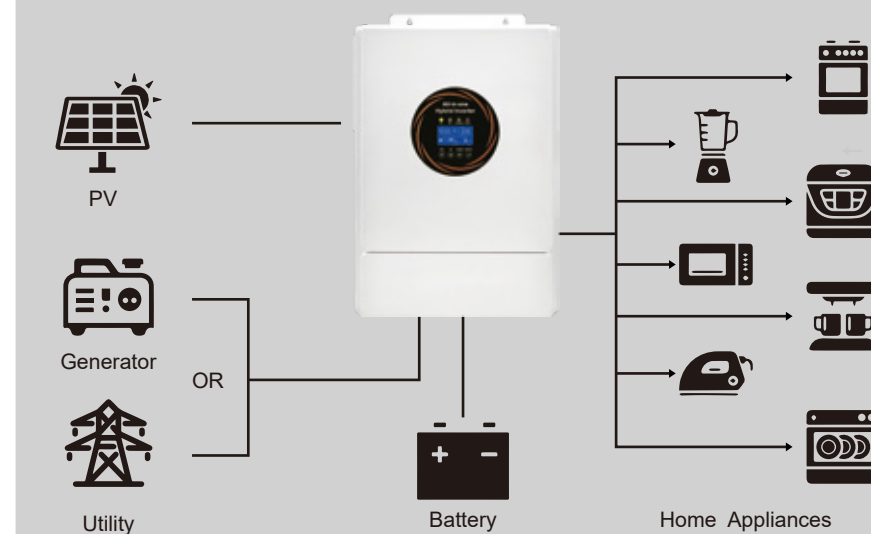
All In One Hybrid Inverter

Output Rated Power: 5.5KW

- CAN / RS232 / RS485 Communication.
- High energy efficiency.
- Maximum support for 6 PCS in parallel.
- Compatible with Multi-brand inverters.
- Long Cycle Life
- Hybrid ON / OFF grid optional.



System Topology Diagram



Model	All 485500Pro
Input	
Single Phase	L+N+PE
Rated Input Voltage	220/230/240VAC
Voltage Range	90-280VAC ± 3V (Normal Mode) 170-280VAC ± 3V
Frequency Range	50Hz/60Hz (Adaptive)
Output	
Rated Output Power	5500W
Output Voltage	220/230/240VAC±5%
Output Frequency	50/60Hz±0.1%
Waveform	Pure Sine Wave
Switch Time	10ms(Typical)
Peak Power	11000VA
Overload Capacity	10.5s@110%~150% Load ; 5.5s@150%~200% Load ; 200ms@>200% Load
Peak Efficiency	>94%
Battery	
Rated Voltage	48Vdc
Constant Voltage Charging Voltage	56.4Vdc
Float Charging Voltage	54Vdc
Charger	
PV Charging Method	MPPT
PV Maximum Input Power	5500W
MPPT Input Voltage Range	120~500Vdc
Optimal working range of Vmp	300~400Vdc
Maximum PV Input Voltage	500Vdc
Maximum PV Input Current	20A
Maximum AC Charging Current	100A
Maximum AC Input Current	80A
Maximum Charging Current	120A
Display	
LCD Interface	Operating / Load / Input / Output....
Communication	
Embedded Interfaces	BMS / RS232 / RS485 / CAN / USB / Dry Contact
Parallel Interface	Yes
General	
Operating Environment Temperature	-10~50 C
Operating Environment Humidity	20%~95% (Without Condensation)
Storage Temperature	-15~60 C
Altitude	The altitude should not exceed 1000m
Noise	≤50db
Dimension(D*W*H)	536*352*135mm
Net Weight(kgs)	10.5

48V 100AH

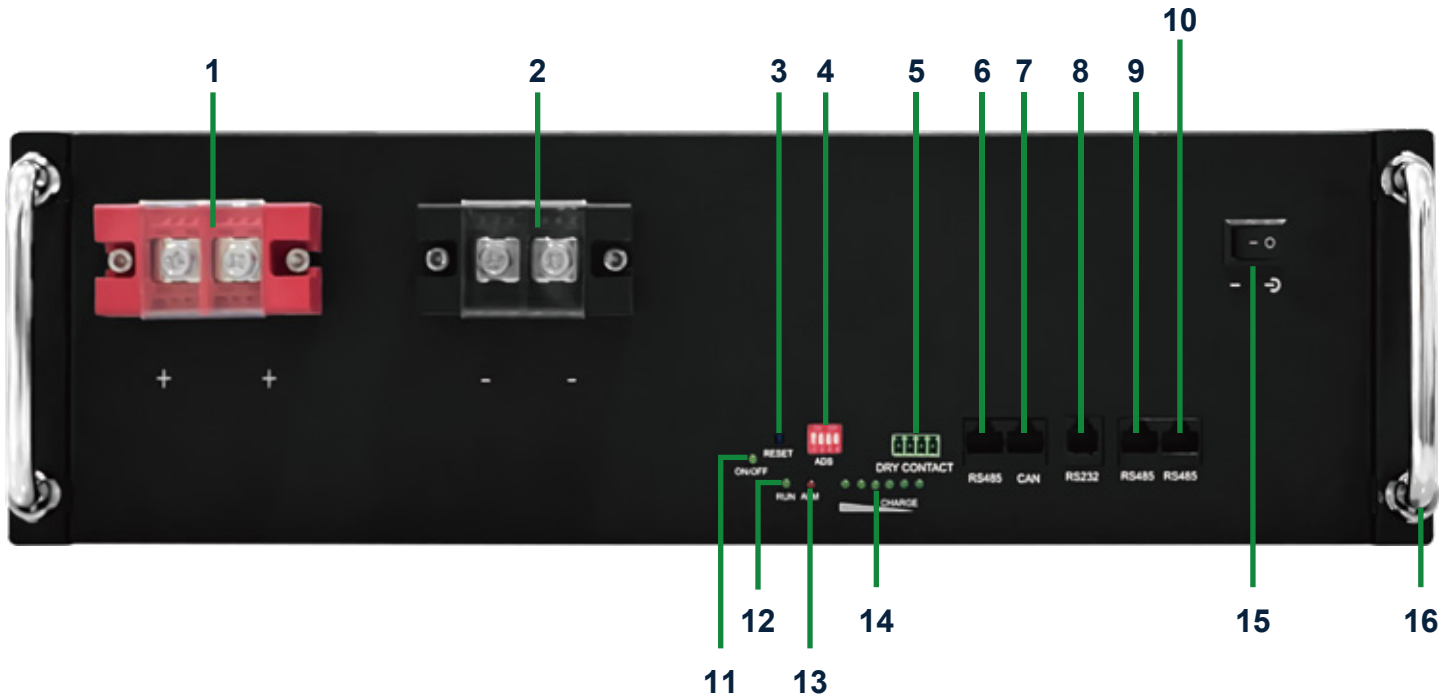
Rack Lithium Battery Pack



- 4.8kW.h Energy.
- 6000 Cycles.
- Calender Life >10 Years.
- Server rack mounting Installation.
- 100AMP Smart BMS with Communication.
- Support RS485 Communication.
- Support connection of 16 PCS in Parallel.
- Free-Maintenance.



DESCRIPTION



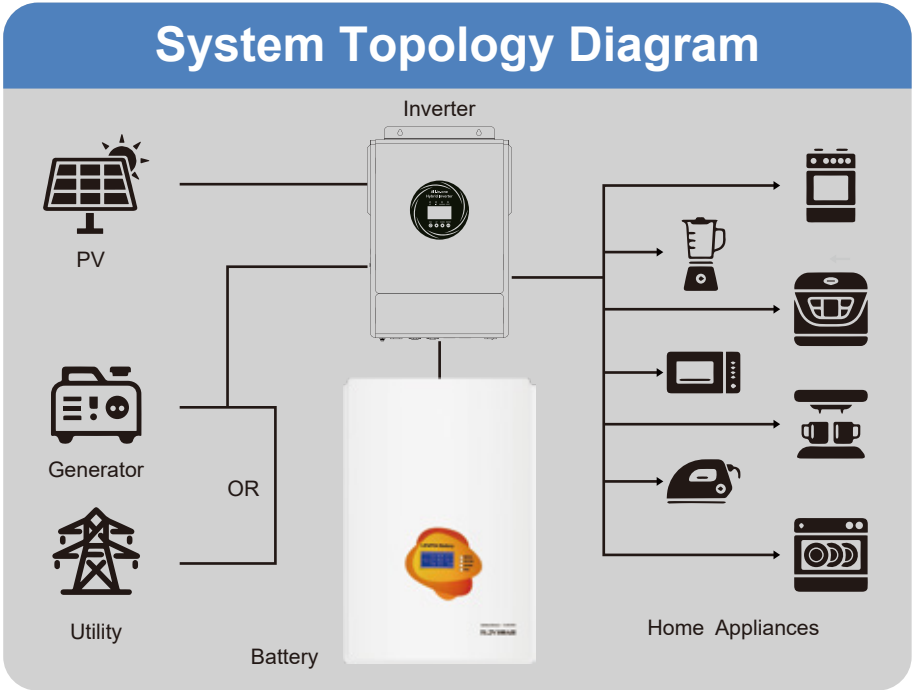
1	Positive	2	Negative	3	Reset	4	Address	5	Dry contact	6	RS485A(to Inverter)
7	CAN	8	RS232	9 10	RS485B(Parallel Operation)	11	ON/OFF(LED)	12	RUN(LED)		
13	Alarm(LED)	14	Charge(LED)	15	Main Switch	16	Handle				

MODEL		RT 48100
Electrical Characteristic		
Norminal Votalge		48V
Norminal Capacity		100AH
Norminal Energy		4.8KWH
Internal Resistance		≤50mΩ
Self Discharge Rate		≤3% per month@25°C
Max Connection		16pcs in parallel
Cycle Life		">6000 cycles @1C@50%DOD@25°C"
Working Temperature		-20°C~60°C/-68°F~140°F
Storage Temperature		-20°C~45°C/-68°F~113°F
Mechanical Characteristic		
Battery Cell Type		Prismatic battery cell
Battery Cell Material		Lithium iron phosphate
Battery Cell Capacity		100Ah
Battery Cell Layout		15S1P
Shell Material		Iron
Product Size		480*476*133.5mm
Dimension		510*505*295mm
Protection Level		IP20
Warranty		3 years
Accessory		"1.2m 4AWG positive&negative wire *2pcs User manual*1pcs, 1m RJ45 wire *1pcs"
Interface		"M8 connection terminal*2(Positive*1&Negative*1) RS485 terminal*2 Address diat*1/soc indicator*1"
Charging & Discharging Characteristic		
Standard Charge Current		50A
Max Charge Current		100A
Charge Method		CC-CV
Charge Cut-off Voltage		54.75V
Standard Discharge Current		50A
Max Discharge Current		100A
Discharge Cut Off Voltage		39V
BMS Characteristic		
Continuous Discharge Current		100A(MAX)
Overcurrent Protection		110A
Overcurrent Reaction Time		30ms
Overcharge Protection		54.75V
Overdischarge Protection		39V
Communication Function		RS485



Wall Mounted Lithium Battery Pack

Brand New and A grade lithium iron phosphate battery, warranty of 5 years, SMART BMS support Bluetooth, RS485/CAN communication, support series and parallel.



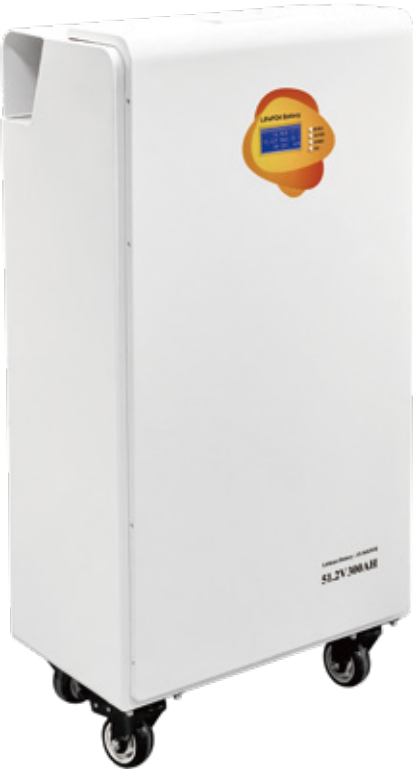
Model	WM 512100	WM 512200
COMPREHENSIVE PARAMETERS		
Battery Voltage	40V~58.4V	
Storage Capacity	5120Wh	10240Wh
Weight	45.5KGS	116.1KGS
Colour	White	
External Dimension	601.5*400*155mm	651.5*445*235mm
Warranty	5 Years	
BATTERY MODULE PARAMETERS		
Type of Battery	LiFePO4	
Capacity	102Ah	206Ah
Battery Cycle Life	6000	
Modular Structure	1P16S	
OVERALL CHARACTERISTIC		
Capacity for assembled cell discharging by 0.2C	≥100Ah	≥200Ah
Standard Charge Condition	Charge with 0.5C constant current and 58.4Vconstant voltage, charge to 58.4V,continue charging till current declineto ≤0.01C	
Maximum Charge Current	100A	200A
Maximum Discharge Current		
Internal Resistance	≤80mΩ Assemblage Impedance	
Cycle Life	≥6000@25℃,80%EOL	
Recommend Charging Temperature	0℃～50℃	
Recommend Discharging Temperature	-15℃～50℃	
Storage Temperature		
Humidity	0-90%	
Maximum Altitude	3000m	
FUNCTIONAL CONFIGURATION		
LED Panel (Light Emitting Diode)	YES	
Communication	RS485,CAN,RS232	
IP Rating	IP21	
Parallel Capability	Up to 6 units	
LED Power Display	Traffic Light Display	
BMS Control	Control Battery Performance	
Package Size	675*515*265mm (Carton) 685*525*280mm (UN Wooden)	725*520*310mm (Carton) 735*530*325mm (UN Wooden)
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2,UL1741	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
RoHS	Yes	

Movable Lithium Battery Pack

- Touch LCD Display.
- Built in intelligent BMS.
- RS485 / RS232 / CAN.
- Maximum support for 6 PCS in parallel.
- Compatible with Multi-brand inverters.
- Designed for a lifespan of 15 years, with a maximum of 6000 cycles.



Model	MB 512300	
Comprehensive Parameters		
Battery Voltage	40V~58.4V	
Storage Capacity	15360Wh	
Weight	129KGS	
Colour	White	
External Dimension	900*570*420mm	
Warranty	5 Years	
Battery Module Parameters		
Type of Battery	LiFePO4	
Capacity	310Ah	
Battery Cycle Life	6000	
Modular Structure	1P16S	
Overall Characteristic		
Capacity for assembled cell discharging by 0.2C	≥300Ah	
Standard Charge Condition	Charge with 0.5C constant current and 58.4Vconstant voltage, charge to 58.4V,continue charging till current declineto ≤0.01C	
Maximum Charge Current	200A	
Maximum Discharge Current		
Internal Resistance	≤80mΩ Assemblage Impedance	
Cycle Life	≥6000@25℃,80%EOL	
Recommend Charging Temperature	0℃～50℃	
Recommend Discharging Temperature	-15℃～50℃	
Storage Temperature		
Humidity	0-90%	
Maximum Altitude	3000m	
Functional Configuration		
LED Panel (Light Emitting Diode)	YES	
Communication	RS485,CAN,RS232	
IP Rating	IP21	
Parallel Capability	Up to 6 units	
LED Power Display	Traffic Light Display	
BMS Control	Control Battery Performance	
Package Size	1010*571*733mm (Carton)	
Certification		
Safety	IEC62109-1, IEC62109-2,UL1741	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
RoHS	Yes	



Interface

1	ON/OFF(Switch)	2	Negative	3	Positive
4	RS485A(to Inverter)	5	RS232	6	RS485B(Parallel)
7	Dry Contact	8	SOC(LED)	9	Address
10	Alarm(LED)	11	RUN(LED)	12	ON/OFF(LED)

Movable Lithium Battery Pack



- Touch LCD Display.
- Built in intelligent BMS.
- RS485 / RS232 / CAN.
- Maximum support for 6 PCS in parallel.
- Compatible with Multi-brand inverters.
- Designed for a lifespan of 15 years, with a maximum of 6000 cycles.



SCOPE

This product is suitable for 51.2V product applications and can be used in conjunction with photovoltaics and inverters to supply power to household televisions, air conditioners, lighting fixtures, etc. This product has voltage, current, and temperature protection functions.

Item	MB 512346	MB 512519	Remarks
General			
Nominal Capacity	346Ah	519Ah	0.3C charging, 1C discharging, 25 ℃
Rated Voltage	51.2V		16S
Discharge Cut-off Voltage	44V		
Charging Cut-off Voltage	58.4V		
Float charging voltage	56V		
Continuous charging maximum current	150A		
Maximum current for continuous discharge	200A		
Battery Energy	17700Wh	26000Wh	
Rated Output Power	10000W		
Communication Interface	RS485 RS232 CAN		
Discharge working temperature	-20 ℃ ~ 55 ℃		
Charging working temperature	-0 ℃ ~ 55 ℃		
Relative Humidity	5 ~ 90%		
Altitude	≤4000m		
Protection Grade	IP22		
Storage Time	Keep charging at least once every 3 months		
Net Weight	163kgs	175kgs	
Number of cycles	6000 times		75% DOD 25 ℃
Main Parameters For BMS			
Overcharge Protection	Overcharge detection voltage (V)	Monomer 3.65 ± 0.05	
	Overcharge protection delay (S)	0.5	
Over Discharge Protection	Overdischarge detection voltage (V)	Monomer 2.7 ± 0.05	
	Overdischarge detection delay (S)	0.5	
Overcurrent Protection	Greater than rated current	1.1%	
Overcurrent Recovery	Disconnect Load	/	
Self Consumption Power	Working Current (mA)	≤10	
	Sleep Current (uA)	≤50	





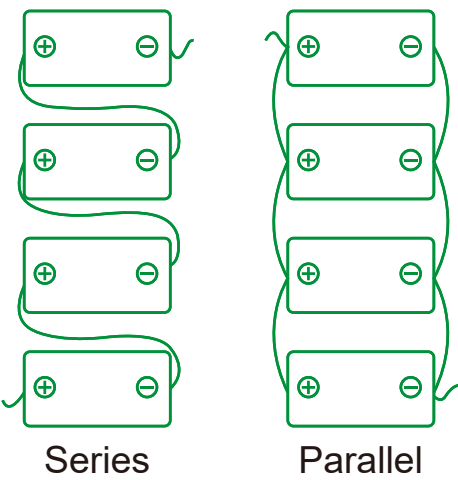
BP Series Lithium Battery Pack

From 50Ah to 200Ah, 1:1 perfect replacement of Lead-acid and Gel batteries. The most cost-effective solution for 12V and 24V home energy storage systems.



BP Series 128050 / 128100 / 128150 / 128200

- UPS
- Solar & Wind Power System
- Golf Cart
- Electric Vehicle, E-bike, E-rickshaw etc
- Lighting



Model	BP 128050	BP 128100	BP 128150	BP 128200
Electrical Characteristics				
Nominal Voltage	12.8V			
Nominal Capacity	50Ah@0.5C	100Ah@0.5C	150Ah@0.5C	200Ah@0.5C
Energy	640Wh	1280Wh	1920Wh	2560Wh
Cycle Life	2500 Cycles @0.5C Charging / Discharging until 80%			
Self Discharge	≤3.5% per month at 25℃			
Standard Charging				
Max. Charging Voltage	14.0~14.6V			
Charging Mode	At 0℃~45℃ temperature,charged to 14.6V at a constant current of 0.5C5A,and then,changed continuously with constant voltage of 14.6V until the current was not more than 0.05C5A.			
Charging Current	10A	20A	30A	40A
Max.Charging Current	25A	50A	75A	100A
Standard Discharging				
Discharging Current	50A	100A	150A	200A
Max. Continuous Current				
Discharging Cut-Off Voltage	10.0			
Operating Condition				
Charge Temperature	0℃ to 45℃ (32°F to 113°F) @60±25% Relative Humidity			
Discharge Temperature	-20℃ to 60℃ (-4°F to 140°F) @60±25% Relative Humidity			
Storage Temperature	0℃ to 45℃ (32°F to 113°F) @60±25% Relative Humidity			
Water Dust Resistance	IP55			
Structure				
Casing	Iron			
Dimension(L*W*H)	230*145*210mm	340*185*220mm	505*185*240mm	525*240*220mm
Net Weight	Approx. 4.5kgs	Approx. 13.15kgs	Approx. 16.2kgs	Approx. 26.8kgs
Gross Weight	Approx. 4.8kgs	Approx. 13.7kgs	Approx. 16.9kgs	Approx. 27.8kgs

PH Series

Portable Power Station

- New Designed
- Easy to carry
- High Cost Performance
- Metal Housing
- Touch Panel
- Suitable for common electrical equipment at home



Scope

The cost-effective design makes it affordable for any family. Meet the outdoor use needs and emergency use needs of most daily devices. It supports DC/AC output and can power your electrical appliances and digital devices such as laptop, mobile phone, tablet, camera, refrigerator, lamp, cooling fan, air conditioner, electric ovens, Power tools etc. during power failure or traveling.

Model	DPH 300	DPH 500	GPH 300	GPH 500
AC Input (Generator/Grid)				
Input Voltage	100-280V	176-264V	100-280V	176-264V
Frequency	50/60Hz			
Mains Charging Efficiency	>95%			
AC Output				
Output Voltage	210-230V			
Output Voltage Waveform	Pure Sine Wave			
Rated Output Voltage	230Vac±5Vac		220Vac	
Rated Output Power	300W	500W	300W	500W
Output Frequency Range(Hz)	50Hz±0.5%			
Maximum Efficiency	>88%			
Core Parameters				
Battery Materials	LiFePO4			
Rated Capacity	650Wh	1000Wh		2000Wh
Cell Life	≥10000 times			
USB*2	5V/2A			
EPS Uninterruptible Power Supply	Support			
EPS Time	<50ms			
General Parameters				
Crafts	Metal Spraying			
PV Input Voltage Range	11-55V		12-50V 10A Max	12-50V 21A Max
PV Maximum Charging Power	300W	500W	300W	450W
Peak-Power	300W	500W	300W	500W
Inverter Output	230VAC			
Charging Mode	AC / PV Charger			
AC Outlet	Global Specification			
AC Charging Power	300W	500W	250W	500W
Battery Indicator	5 LEDs		4 LEDs	
Dimension	300*155*210mm	320*180*210mm	300*155*220mm	320*192*220mm
Carton	330*245*310mm	350*275*220mm	370*207*280mm	390*240*280mm
Net Weight	8.45kg	12.05kg	10.5kg	16.2kg
Gross Weight	9.55kg	13kg	10.67kg	16.9kg
Working Environment				
Operating Noise	<50dB			
Operating Temperature	-10~40 ℃			
Operating Humidity	20~95%RH			
Storage Temperature	-15~60 ℃			
Storage Humidity	5-95%RH			
Protection Mechanisms				
Type of protection	/Input overvoltage protection/Input undervoltage protection/Output overvoltage protection/Output overload protection/Output undervoltage protection/Output overcurrent/Short circuit protection/Overtemperature protection/Battery overvoltage protection/Battery Low Voltage Protection /Battery charging overcurrent/Short circuit protection/Battery discharge overcurrent/Short circuit protection /Battery high and low temperature protection			

Application Area



We are able to provide comprehensive services for industrial, commercial and residential projects. We have rich experience in the operations of roof and ground PV system, and can meet the needs of the different clients, and provide timely and thoughtful services to ensure revenue.



Communication Base Station



Emergency Power Supply



RV & Camper



Yachts & Boats



Household Energy Storage



Fishery / AC / Solar all in one



Commercial Energy Storage



Industrial & Commercial Energy Storage