JFY Tech

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JFY Tech

Solar Energy Storage Product Catalog

www.jfy-tech.net

Shenzhen JingFuYuan Tech Co., Ltd

Enterprise Milestone

2003, JFY founded in ShenZhen

2010, First batch of Australian SAA certification inverter manufacturers in China

2011, China national high-tech enterprise

2013, Top 10 PV inverter enterprise in China

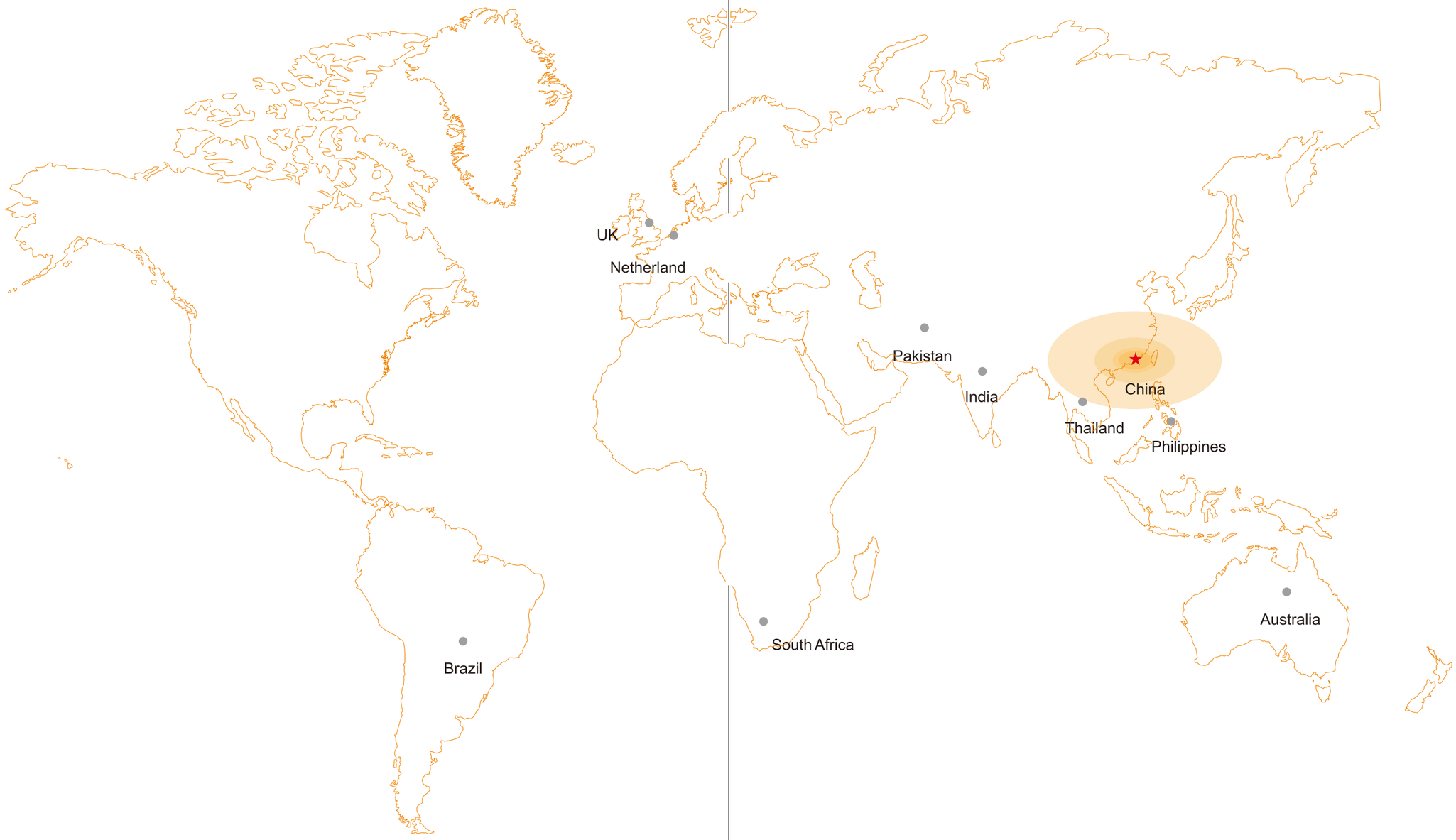
2015, Top 5 Chinese inverter supplier in Netherland

2017, Jiangxi branch of JFY was established

Focus on power electronic field for 15 years

PV inverter industry for 10 years

Provide efficient, stable, reliable inverter



Single Phase Hybrid Inverter

SUNMAX-3048
SUNMAX-5048

iXCEED+ 3kVA
iXCEED+ 5kVA

Single Phase Solar Pumping Inverter

SPRING 550-SLA
SPRING 750-SLA
SPRING 1100-SLA
SPRING 1500-SLA
SPRING 2200-SLA

Three Phase Solar Pumping Inverter

SPRING 550-LA
SPRING 750-LA
SPRING 1100-LA
SPRING 1500-LA
SPRING 2200-LA

SPRING 3000-A
SPRING 4000-A
SPRING 5500-A
SPRING 7500-A
SPRING 9200-A

SPRING 11K-A
SPRING 13K-A
SPRING 15K-A
SPRING 18K-A
SPRING 22K-A

SPRING 26K-A
SPRING 30K-A
SPRING 37K-A
SPRING 45K-A
SPRING 55K-A
SPRING 75K-A

Single Phase Off-grid Inverter

SUNAURA 500S
SUNAURA 750S
SUNAURA 1000S

XPI 1.0kVA
XPI 2.0kVA
XPI 3.0kVA
XPI 4.0kVA
XPI 5.0kVA
XPI 7.0kVA

XPI-LV 1.0kVA
XPI-LV 3.0kVA
XPI-LV 5.0kVA

IXCEED 2kVA
IXCEED 3kVA
IXCEED 4kVA
IXCEED 5kVA

ESS-B 10K
ESS-B 20K

Three Phase Off-grid Inverter

ETS-B 10K
ETS-B 20K
ETS-B 30K
ETS-B 40K
ETS-B 50K
ETS-B 60K

IPS 80K
IPS 100K
IPS 120K
IPS 160K

MPPT Solar Charge Controller

HSC220M4
HSC220M6
HSC220M8

HSC350M4
HSC350M6
HSC350M8

HSC380M4
HSC380M6
HSC380M8

Contents

Company Profile

About Us

Shenzhen Jingfuyuan Technology Co., Ltd (Abbr. JFY) was Founded in 2003. It's a national high-tech enterprise of China that integrating R&D, production, sales and service. The company has been focusing on the power electronic field over 15 years, providing photovoltaic inverters, EV Charger and UPS solutions.

Our Products

JFY provides complete photovoltaic power system solutions, including residential, commercial and large-scale ground mounted power plants solutions. Among them, PV grid-connected inverter power range from 1kW-1.26MW, off-grid inverter power range from 0.5kW-160kW, household hybrid energy storage inverter and supporting monitoring system. The PV inverter sales area covers more than 60 countries, with a cumulative global shipments of over 690,000 units. At the same time, JFY has a complete power range of EV Charger products, which can be applied to different EV models.

Our R&D Strength

As a technology-oriented company, the annual R&D investment of JFY is accounted for more than 10% of the company's total turnover. With a more than 100 employees R&D team, 60% of engineers have 10 years of industry experience. After continuous innovation, JFY has more than 200 patents, which 60 of them are invention patents.

Our Achievement

After years of development in the new energy field, JFY had been awarded the 2017 Polar Star "Chinese Double Ten Inverter Brand", "Top Ten PV Inverter Enterprise", "PV Poverty Alleviation Quality Inverter Brand", "PV Inverter Innovation Award"; In overseas market, JFY became the First batch of Australian SAA certification inverter manufacturers in China and 2015 TOP5 Chinese PV inverter supplier in the Netherlands. "Top Ten Leading Enterprises of EV Charger ", "Chinese EV Charger Top Ten Brands" and etc. honors. JFY always adheres the conception of " God rewards the diligence and Strive for excellence" and will try our best to create more value for customers.

Some Hornors and Certifications

Patents

China national Hi-tech Enterprise
China honest And Trustworthy Enterprise
China Top 10 PV Inverter Enterprise

Certificates

TV Reports

China central television reported

China Shanxi TV reported

China Gansu TV reported

SUNMAX-3048 / 5048

Single Phase Hybrid Inverter

SUNMAX series as a new design, a new generation of household hybrid inverter, specifically provide intelligent and flexible energy management system solutions for families. The series of Sunmax hybrid inverter highly improve the photovoltaic self-use rate and greatly save the household electricity fee. Also, it can be used as an back-up power supply when power grid cuts off.

Product features

Intelligent management:

- LED display,mobile APP intelligent monitoring and maintenance;
- On-grid & off-grid dual working modes, can be used as emergency power;
- Compatible with lead-acid battery and lithium battery;

Safety:

- Advanced topology, low leakage current, high safety;
- Natural cooling, fanless design, long life;
- Perfect protection function, safe and reliable;

Easy maintenance:

- Compact structure, small size and light in weight;
- Easy installation;
- IP65 protection degree;

Efficient:

- PV input and battery DC coupling, high conversion efficiency;
- High ratio of self-use;

Technical data	SUNMAX-3048	SUNMAX-5048
Input(PV)		
Max.Input Power(W)	3300	5500
Max.Input Voltage(Vdc)	500	500
MPPT Voltage Range/Rated Voltage(Vdc)	100~500/380	100~500/380
Start Voltage(Vdc)	150	150
Max. Input Current(A)	11	11/11
Number of Input/Number of MPP Trackers	1/1	2/2
Input Terminal Type	MC4	MC4
Input(Battery)		
Battery Type	Lead-acid or Li-ion	Lead-acid or Li-ion
Rated Voltage(Vdc)	48	48
Voltage Range(Vdc)	40~60	40~60
Max. Charging Current(A)	50(Settable)	50(Settable)
Max. Discharging Power(W)	3000	5000
BMS Commucation	CAN,RS485	CAN,RS485
AC Output(On Grid)		
Rated Power(W)	3000	5000
Rated Voltage/Range(Vac)	230/170~290	230/170~290
Frequency Range(Hz)	50/60±5	50/60±5
Max.Ouput Current(A)	15	25
Power Factor(cosΦ)	Adjustable from 0.8 leading to 0.8 lagging	Adjustable from 0.8 leading to 0.8 lagging
THDI	＜3%(Rated Power)	＜3%(Rated Power)
Anti-reverse Power	Settable	Settable
AC Output(Off Grid)		
Rated Power(W)	3000	5000
Rated Ouput Voltage(V)	200/208/220/230/240±1%	200/208/220/230/240±1%
Rated Ouput Frequency(Hz)	50/60±1%	50/60±1%
THDV (Liner Load)	＜3%	＜3%
Overload Capacity	105%~125%,10S; 125%~150%,5S; ＞150% ,0.5S	105%~125%,10S ; 125%~150%,5S; ＞150% ,0.5S
Switching Time(mS)	＜10	＜10
Efficiency		
Max.PV to Grid Efficiency	97.8%	97.8%
Euro Efficiency	97.0%	97.0%
MPPT Efficiency	99.9%	99.9%
General Data		
Dimension (W*D*H mm)	585*415*209	585*415*209
Weight(kg)	28	30
Operating temperature (°C)	-25~+60(＞45°C Derating)	-25~+60(＞45°C Derating)
Relative humidity in operation	0~95%(non-condensing)	0~95%(non-condensing)
Max. operating altitude (m)	6000 (>3000m derating)	6000 (>3000m derating)
Degree of protection	IP65	IP65
Standby Power Consumption(W)	＜8	＜8
Cooling	Natural Cooling	Natural Cooling
Noise[dB(A)]	＜25	＜25
Display	LED&APP	LED&APP
Communication	WIFI/Bluetooth/CAN/RS485	WIFI/Bluetooth/CAN/RS485

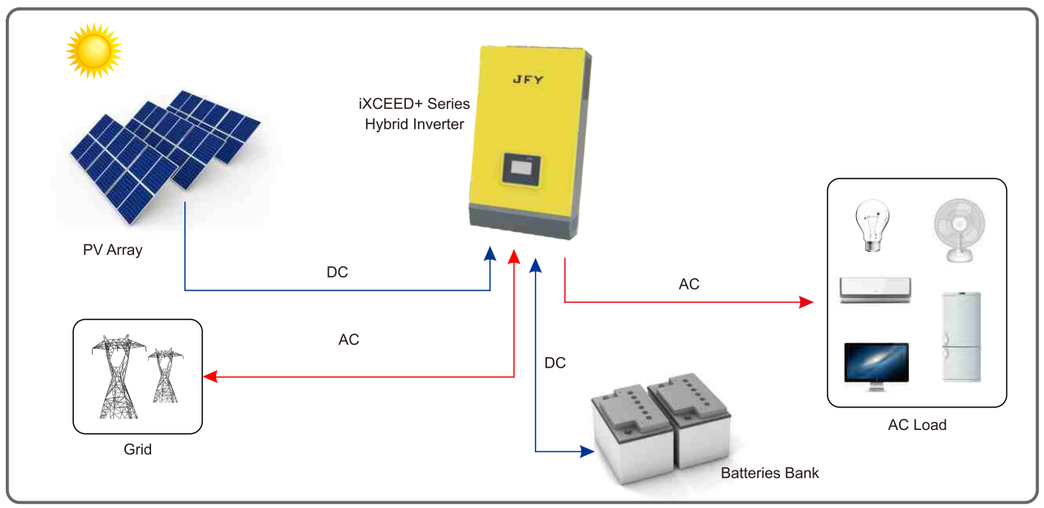
iXCEED+ 3kVA/5kVA

Hybrid Inverter

Features

- Wall-mounted installation , easy and convenient
- LCD+LED display, user-friendly interface
- MPPT control algorithm, high efficient
- High power density , MPPT controller and inverter integrated design
- Intelligent charging management function, support lead-acid/lithium battery
- Able to work in on-grid and off-grid mode, automatically supplying power to backed-up loads in the event of grid outages
- Battery and grid isolation design, with less interference to the grid for higher security
- Compatible with WiFi and GPRS module, remote monitoring via computer and mobile phone
- Two kinds of communication mode: CAN and RS485 for lithium battery

System Diagram



Model	iXCEED+ 3kVA		iXCEED+ 5kVA	
Max.PV Array Power (W)	3000	3000	3000	6000
Rated output power (W)	3000	3000	3000	5000
Max.PV array open circuit voltage (Vdc)	165		165	
MPPT operating voltage range (Vdc)	70~150		70~150	
MPP Tracker Number	1	1	1	2
On-Grid Data				
Rated output power (W)	3000		5000	
Rated output voltage (Vac)	220/230/240		220/230/240	
Output voltage range (Vac)	180~275		180~275	
Rated output current (A)	13		21.7	
Power factor	>0.9		>0.9	
Max. conversion efficiency (DC/AC)	90%		90%	
Off-Grid Data				
Rated output power (VA/W)	3000/2400		5000/4000	
AC input voltage range (Vac)	180~275		180~275	
Frequency range (Hz)	50±5		50±5	
Max. AC input current (A)	20		30	
Rated output voltage (Vac)	220/230/240		220/230/240	
Output waveform	Pure sine wave		Pure sine wave	
Max. conversion efficiency (DC/AC)	93%		93%	
Battery And Charging Data				
Rated battery voltage (Vdc)	48		48	
Max. solar charge current (A)	60	60	60	120
Max. AC charge current (A)	20		30	
General Data				
Dimension (D*W*H mm)	100*295*480	120*305*530	120*305*530	140*305*530
Net weight (Kg)	9	11	11	12
Communication ports	RS232/RS485/CAN		RS232/RS485/CAN	
Humidity	0~95%		0~95%	
Operating temperature (°C)	0~40		0~40	

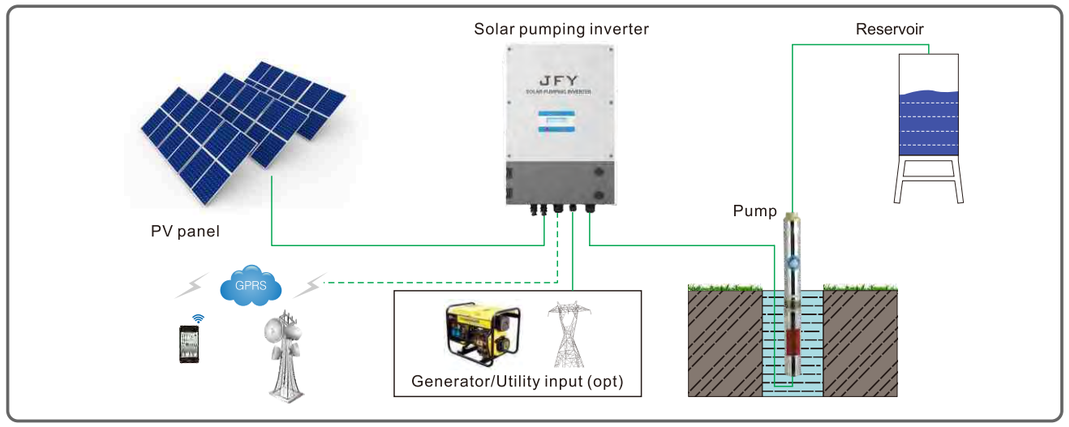
SPRING Series 550W-75kW

Solar Pumping Inverter

Features

- Support utility/generator input, Strong environmental adaptability
- Compact design, easy to transport and install
- Various communication ports, RS485/CAN/GPRS (Opt)
- Perfect protection function, prevent dry pumping and spillage
- Advanced MPPT optimized design, fast response and high reliability
- Fully automatic intelligent operation, great overload capability, safe and stable
- IP65 protection grade, integrate with combiner box and distribution unit
- LCD screen design, user-friendly interface

System Diagram



Describe:

SPRING 2200-SLA

① Product series
② Rated output power
③ SL-Output 220V/single phase, No- Output 380V/three phase
④ L-Output 220V/three phase, No-Output 380V/three phase
⑤ A-Support AC input, No-Doesn't support AC input

All the solar pumping inverter model list on this datasheet are support utility/generator input (-A model), without -A model doesn't support AC input, the other parameters are the same.

Technical Data	SPRING 550-SLA	SPRING 750-SLA	SPRING 1100-SLA	SPRING 1500-SLA	SPRING 2200-SLA
PV Input					
MPP Trackers	1	1	1	1	1
Max. input strings	1	1	1	1	1
Start voltage (Vdc)	80	80	80	80	80
Max. input current (A)	9	9	9	11	11
Max. input voltage (Vdc)	450	450	450	450	450
MPPT voltage range (Vdc)	100~360	100~360	150~360	200~400	270~400
AC Input					
Input voltage range (Vac)	220±15%	220±15%	220±15%	220±15%	220±15%
Input frequency range (Hz)	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5
AC Output					
Rated output power (W)	550	750	1100	1500	2200
Rated voltage (Vac)	220	220	220	220	220
Output voltage range (Vac)	0~240	0~240	0~240	0~240	0~240
Output frequency (Hz)	0~50/60	0~50/60	0~50/60	0~50/60	0~50/60
Max. output current (A)	5	6.3	8.6	10	14
General Data					
Display	LCD	LCD	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP65	IP65	IP65	IP65	IP65
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	418*288*152	418*288*152	418*288*152	453*288*152	453*288*152
Weight (kg)	7	7	7	8.5	8.5

Technical Data	SPRING 550-LA	SPRING 750-LA	SPRING 1100-LA	SPRING 1500-LA	SPRING 2200-LA
PV Input					
MPP Trackers	1	1	1	1	1
Max. input strings	1	1	1	1	1
Start voltage (Vdc)	80	80	80	80	80
Max. input current (A)	9	9	9	11	11
Max. input voltage (Vdc)	450	450	450	450	450
MPPT voltage range (Vdc)	100~360	100~360	150~360	200~360	200~360
AC Input					
Input voltage range (Vac)	220±15%	220±15%	220±15%	220±15%	220±15%
Input frequency range (Hz)	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5
AC Output					
Rated output power (W)	550	750	1100	1500	2200
Rated voltage (Vac)	220	220	220	220	220
Output voltage range (Vac)	0~240	0~240	0~240	0~240	0~240
Output frequency (Hz)	0~50/60	0~50/60	0~50/60	0~50/60	0~50/60
Max. output current (A)	4	5	6	7	11
General Data					
Display	LCD	LCD	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP65	IP65	IP65	IP65	IP65
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	453*288*152	453*288*152	453*288*152	453*288*152	453*288*152
Weight (kg)	8.5	8.5	8.5	8.5	8.5

Technical Data	SPRING 3000-A	SPRING 4000-A	SPRING 5500-A	SPRING 7500-A	SPRING 9200-A
PV Input					
MPP Trackers	1	1	1	1	1
Max. input strings	2	2	2	3	3
Start voltage (Vdc)	250	250	250	250	250
Max. input current (A)	9	11	12	19	22
Max. input voltage (Vdc)	900	900	900	900	900
MPPT voltage range (Vdc)	500~680	500~680	500~680	500~680	500~680
AC Input					
Input voltage range (Vac)	380±15%	380±15%	380±15%	380±15%	380±15%
Input frequency range (Hz)	50/60±5%	50/60±5	50/60±5	50/60±5	50/60±5
AC Output					
Rated output power (W)	3000	4000	5500	7500	9200
Rated voltage (Vac)	380	380	380	380	380
Output voltage range (Vac)	0~440	0~440	0~440	0~440	0~440
Output frequency (Hz)	0~50/60	0~50/60	0~50/60	0~50/60	0~50/60
Max. output current (A)	8	10	13	18	21
General Data					
Display	LCD	LCD	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP65	IP65	IP65	IP65	IP65
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	478*325*155	478*325*155	478*325*155	528*346*166	528*346*166
Weight (kg)	12	12	12	14	14

Technical Data	SPRING 11K-A	SPRING 13K-A	SPRING 15K-A	SPRING 18K-A	SPRING 22K-A
PV Input					
MPP Trackers	1	1	1	1	1
Max. input strings	3	6	6	6	6
Start voltage (Vdc)	250	250	250	250	250
Max. input current (A)	24	31	32	38	46
Max. input voltage (Vdc)	900	900	900	900	900
MPPT voltage range (Vdc)	500~680	500~680	500~680	500~680	500~680
AC Input					
Input voltage range (Vac)	380±15%	380±15%	380±15%	380±15%	380±15%
Input frequency range (Hz)	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5
AC Output					
Rated output power (W)	11000	13000	15000	18000	22000
Rated voltage (Vac)	380	380	380	380	380
Output voltage range (Vac)	0~440	0~440	0~440	0~440	0~440
Output frequency (Hz)	0~50/60	0~50/60	0~50/60	0~50/60	0~50/60
Max. output current (A)	24	28	30	39	45
General Data					
Display	LCD	LCD	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP65	IP65	IP65	IP65	IP65
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	528*346*166	583*405*190	583*405*190	583*405*190	583*405*190
Weight (kg)	14	22.5	22.5	22.5	22.5

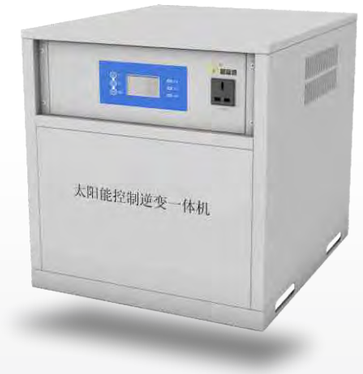
Technical Data	SPRING 26K-A	SPRING 30K-A	SPRING 37K-A
PV Input			
MPP Trackers	1	1	1
Max. input strings	8	8	10
Start voltage (Vdc)	250	250	250
Max. input current (A)	53	64	78
Max. input voltage (Vdc)	900	900	900
MPPT voltage range (Vdc)	500~680	500~680	500~680
AC Input			
Input voltage range (Vac)	380±15%	380±15%	380±15%
Input frequency range (Hz)	50/60±5	50/60±5	50/60±5
AC Output			
Rated output power (W)	26000	30000	37000
Rated voltage (Vac)	380	380	380
Output voltage range (Vac)	0~440	0~440	0~440
Output frequency (Hz)	0~50/60	0~50/60	0~50/60
Max. output current (A)	54	60	75
General Data			
Display	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP20	IP20	IP20
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	467*260*220	467*260*220	467*260*220
Weight (kg)	12	12	12

Technical Data	SPRING 45K-A	SPRING 55K-A	SPRING 75K-A
PV Input			
MPP Trackers	1	1	1
Max. input strings	12	16	20
Start voltage (Vdc)	250	250	250
Max. input current (A)	108	114	160
Max. input voltage (Vdc)	900	900	900
MPPT voltage range (Vdc)	500~680	500~680	500~680
AC Input			
Input voltage range (Vac)	380±15%	380±15%	380±15%
Input frequency range (Hz)	50/60±5	50/60±5	50/60±5
AC Output			
Rated output power (W)	45000	55000	75000
Rated voltage (Vac)	380	380	380
Output voltage range (Vac)	0~440	0~440	0~440
Output frequency (Hz)	0~50/60	0~0/60	0~50/60
Max. output current (A)	91	112	162
General Data			
Display	LCD	LCD	LCD
Communication port	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
Protection grade	IP20	IP20	IP20
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling
Operating tempeture range (°C)	-25~+60	-25~+60	-25~+60
Dimension (D*W*H mm)	546*347*242	546*347*242	528*346*166
Weight (kg)	14	14	14

SPRING 26K-37K solar pumping inverter can use JFY W1-A outdoor cabinet as option, the cabinet's parameters as follow: protection grade is IP54, weight is 49kg, dimension is (L*W*H) 650*320*790mm
SPRING 45K-75K solar pumping inverter can use JFY W2-A outdoor cabinet as option, the cabinet's parameters as follow: protection grade is IP54, weight is 53kg, dimension is (L*W*H) 750*320*940mm

SUNAURA Series 500S-1000S

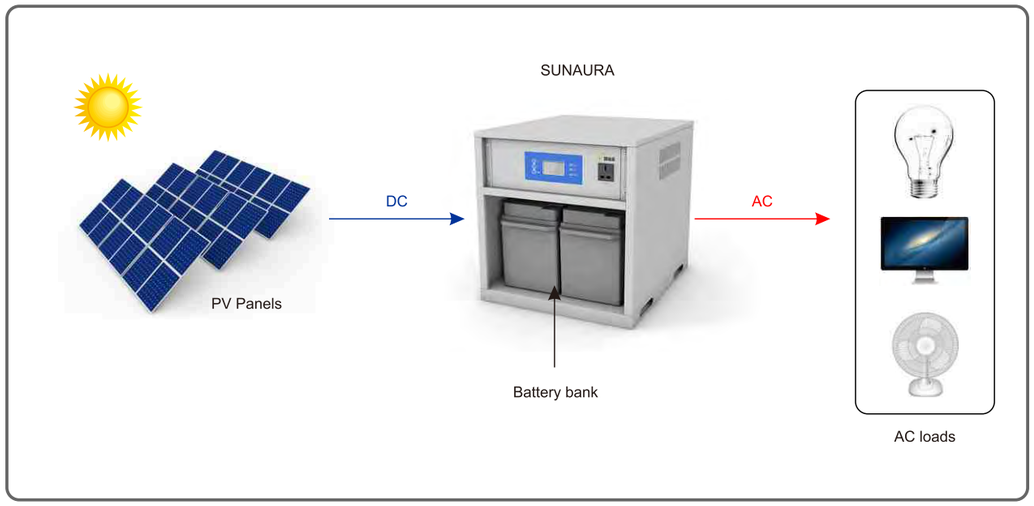
Single Phase Off-grid Inverter



Features

- Pure sine wave output, stable power supply
- Power frequency transformer isolation design, safe and reliable
- Intelligent battery management and temperature compensation function
- Controller, inverter, battery integrated design, easy to install and use
- Perfect under voltage, over temperature, over current and short circuit protection function etc
- LCD intelligent display: PV input power, battery capacity, output voltage information etc

System Diagram



Technical data	SUNAURA 500S	SUNAURA 750S	SUNAURA 1000S
Controller			
Max. PV input power (W)	560	560	800
Input voltage range (Vdc)	30~50	30~50	30~50
Max. charge current (A)	20	20	30
Inverter			
Rated output power (VA/W)	500/400	700/560	1000/800
Output voltage (Vac)	220/230/240±3%	220/230/240±3%	220/230/240±3%
Output frequency (Hz)	50±1	50±1	50±1
THDV (Linear load)	<5%	<5%	<5%
Overload capacity	100%~125%, 3 min; 125%~150%, 1 min; 150%~200%, 10s	100%~125%, 3 min; 125%~150%, 1 min; 150%~200%, 10s	100%~125%, 3 min; 125%~150%, 1 min; 150%~200%, 10s
Current crest factor	3:1	3:1	3:1
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave
Power factor	0.8	0.8	0.8
Battery			
Type	Lead-acid battery	Lead-acid battery	Lead-acid battery
Capacity	2*150AH/12V	2*150AH/12V	2*150AH/12V
Rated voltage (Vdc)	24	24	24
Float charge voltage (Vdc)	28	28	28
General Data			
Efficiency	⩾85%	⩾85%	⩾85%
Display	LCD+LED	LCD+LED	LCD+LED
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling
Communication port	RS485	RS485	RS485
Operating temperature range (°C)	-20~+55	-20~+55	-20~+55
Humidity	0~95% (Non-condensing)	0~95% (Non-condensing)	0~95% (Non-condensing)
Altitude (m)	⩽6000 (>3000 derating)	⩽6000 (>3000 derating)	⩽6000 (>3000 derating)
Noise [dB(A)]	<55	<55	<55
Protection grade	IP20	IP20	IP20
Dimension (D*W*H mm)	450*470*520	450*470*520	450*470*520
Weight (without battery) kg	24	24.5	25

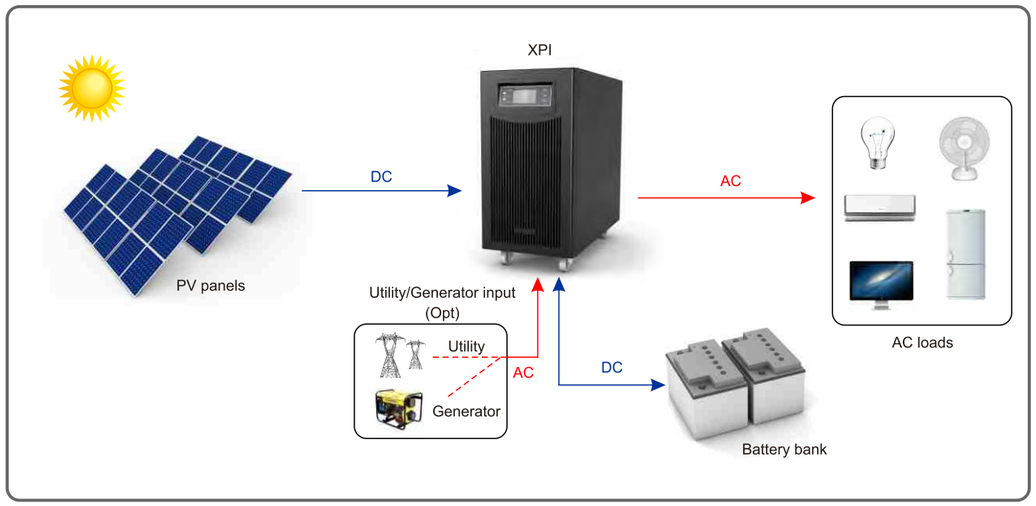
XPI Series 1.0kVA-7.0kVA

Single Phase Off-grid Inverter

Features

- Power frequency transformer isolation design, safe and reliable
- MPPT control algorithm, high efficient
- LCD+LED design, user-friendly interface
- Pure sine wave output, great overload capability
- Overload, low voltage, surge, short circuit, overcharge, over discharge, over temperature, etc. protection

System Diagram



Technical data	1kVA	2kVA	3kVA	4kVA	5kVA	7kVA
DC Side						
Rated input power (W)	1000/1440	2880	2880	5760	5760	5760
Battery voltage (Vdc)	24	48	48	96	96	96
Number of MPPT	1	1	1	1	1	1
MPPT voltage range (Vdc)	30~90	70~150	70~150	150~300	150~300	150~300
Operating voltage (Vdc)	60	100	100	210	210	210
Max. input current (A)	50	50	50	50	50	50
Max. charge current (A)	50	50	50	50	50	50
Float charge voltage (Vdc)	26.7	53.5	53.5	107	107	107
Even charge voltage (Vdc)	28.2	56.4	56.4	112.8	112.8	112.8
AC Input						
Input voltage range (Vac)	170~260	170~260	170~260	170~260	170~260	170~260
Input frequency range (Hz)	45~55/55~65	45~55/55~65	45~55/55~65	45~55/55~65	45~55/55~65	45~55/55~65
Max. charge current (A)	20	20	20	20	20	20
Inverter						
Rated output power (VA/W)	1000/800	2000/1600	3000/2400	4000/3200	5000/4000	7000/5600
Output voltage (Vac)	220/230/230±3% (Opt)					
Output frequency (Hz)	50/60±1%	50/60±1%	50/60±1%	50/60±1%	50/60±1%	50/60±1%
THDV (Linear load)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency	>85%	>85%	>85%	>85%	>85%	>85%
Overload capacity	105%~120%, 30s 120%~150, 10s >150, 5s	105%~120%, 30s 120%~150, 10s >150, 5s	105%~120%, 30s 120%~150, 10s >150, 5s	105%~120%, 30s 120%~150, 10s >150, 5s	105%~120%, 30s 120%~150, 10s >150, 5s	105%~120%, 30s 120%~150, 10s >150, 5s
Current crest factor	3:1	3:1	3:1	3:1	3:1	3:1
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Power factor	0.8	0.8	0.8	0.8	0.8	0.8
General Data						
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Communication port	RS232	RS232	RS232	RS232	RS232	RS232
Noise [dB(A)]	<55	<55	<55	<55	<55	<55
Operating temperature range (°C)	0~+55 (>50 derating)					
Storage temperature range (°C)	-15~70	-15~70	-15~70	-15~70	-15~70	-15~70
Humidity	0~90% (Non-condensing)					
Altitude (m)	<6000 (>3000 derating)					
Dimension (D*W*H mm)	420*145*215	500*195*345	500*195*345	500*240*490	500*240*490	500*240*490
Weight (kg)	10	19	22	33	40	54

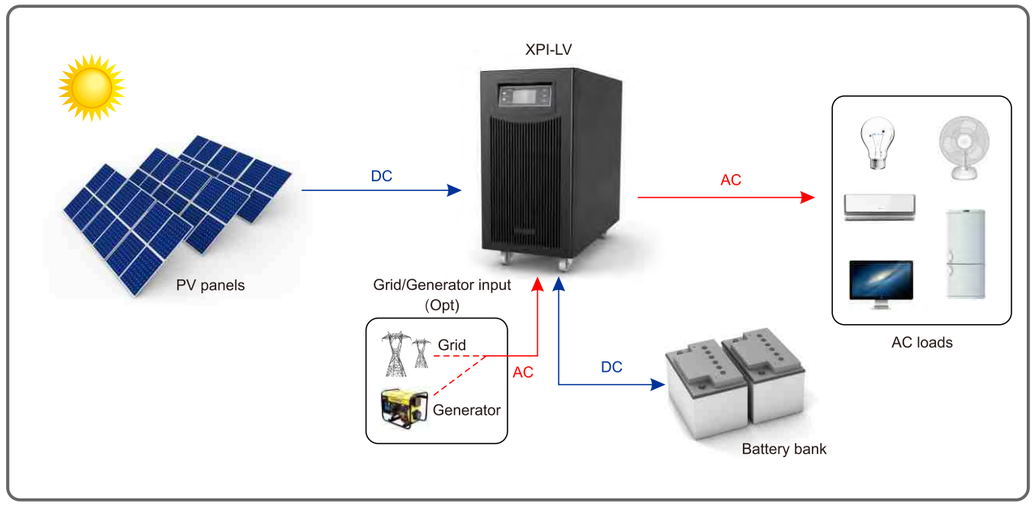
XPI-LV Series 1.0kVA-5.0kVA

Single Phase Off-grid Inverter

Features

- Power frequency transformer isolation design, safe and reliable
- LCD+LED design, user-friendly interface
- MPPT control algorithm, high efficient
- 110Vac/60Hz pure sine wave output, great overload capability
- Overload, low voltage, surge, short circuit, overcharge, over discharge, over temperature, etc. protection

System Diagram



Technical Data	1kVA	3kVA	5kVA
DC Side			
Rated input power (W)	1000	2880	5760
Battery voltage (Vdc)	24	48	96
Number of MPPT	1	1	1
MPPT voltage range (Vdc)	30~90	70~150	150~300
Operating voltage (Vdc)	60	100	210
Max. input current (A)	50	50	50
Max. charge current (A)	50	50	50
Float charge voltage (Vdc)	26.7	53.5	107
Even charge voltage (Vdc)	28.2	56.4	112.8
AC Input			
Input voltage range (Vac)	100~120	100~120	100~120
Input frequency range (Hz)	55~65	55~65	55~65
Max. charge current (A)	20	20	20
Inverter			
Rated output power (VA/W)	1000/800	3000/2400	5000/4000
Output voltage (Vac)	110±3%	110±3%	110±3%
Output frequency (Hz)	60±1%	60±1%	60±1%
THDV (Linear load)	<5%	<5%	<5%
Efficiency	>85%	>85%	>85%
Overload capacity	105%~120%,30S; 120%~150%,10S; >150%,5S;	105%~120%,30S; 120%~150%,10S; >150%,5S;	105%~120%,30S; 120%~150%,10S; >150%,5S;
Crest factor	3:1	3:1	3:1
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave
Power factor	0.8	0.8	0.8
General Data			
Display	LCD+LED	LCD+LED	LCD+LED
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling
Communication port	RS232	RS232	RS232
Noise [dB(A)]	<55	<55	<55
Operating temperature range (℃)	-5~45 (>45 derating)	-5~45 (>45 derating)	-5~45 (>45 derating)
Storage temperature range (℃)	-20~55	-20~55	-20~55
Humidity	0~95% (Non-condensing)	0~95% (Non-condensing)	0~95% (Non-condensing)
Altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Dimension (D*W*H mm)	420*145*215	500*195*345	500*240*490
Weight (kg)	10	22	40

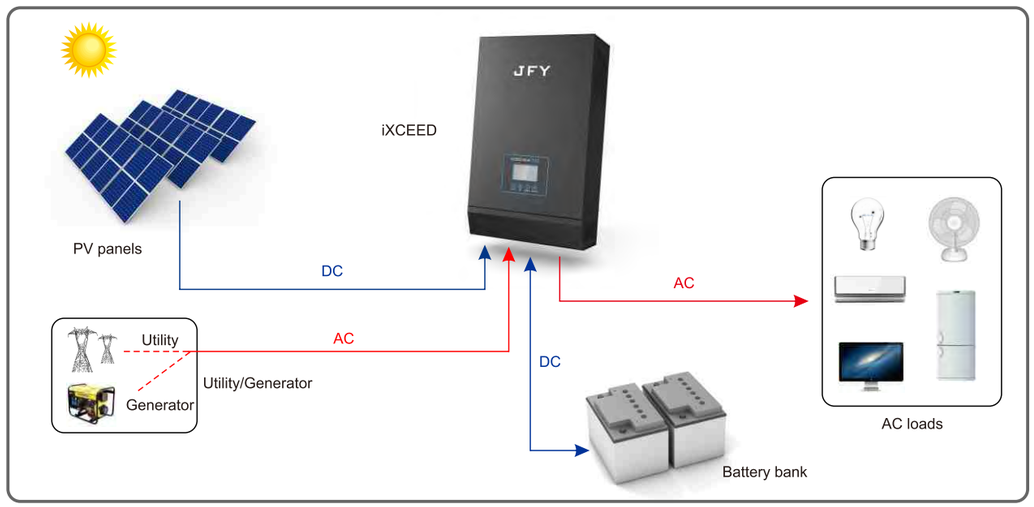
iXCEED Series 2kVA-5kVA

Single Phase Off-grid Inverter

Features

- Built-in MPPT charge controller
- Pure sine wave output, great overload capability
- Max. charge current up to 60A, smart battery management function
- High frequency design, wide input voltage and frequency range
- Perfect overload, short circuit, over temperature, overcharge, over discharge protection function
- Support utility or generator input, cold start function, AC automatically reboot function
- Display battery capacity percentage, AC input voltage, inverter output voltage, load indication, PV indication, operating status information, etc

System Diagram



Technical data	2kVA	3kVA	4kVA	5kVA
DC Side				
Rated input power (W)	1500	3000	3000	3000
Battery voltage (Vdc)	24/48	48	48	48
Number of MPPT	1	1	1	1
MPPT voltage range (Vdc)	30~90/70~165	70~165	70~165	70~165
Recommend operating voltage (Vdc)	60/120	120	120	120
Max. charge current (A)	60	60	60	60
Float charge voltage (Vdc)	27/54	54	54	54
Even charge voltage (Vdc)	27.8/55.6	55.6	55.6	55.6
AC Input				
Rated voltage (Vac)	220/230/240±3%	220/230/240±3%	220/230/240±3%	220/230/240±3%
Input voltage range (Vac)	165~275	165~275	165~275	165~275
Input frequency range (Hz)	50/60±3%	50/60±3%	50/60±3%	50/60±3%
Max. charge current (A)	20	20	30	30
Inverter				
Rated output power (VA/W)	2000/1600	3000/2400	4000/3200	5000/4000
Output voltage (Vac)	220/230/240±3%	220/230/240±3%	220/230/240±3%	220/230/240±3%
Output frequency (Hz)	50/60±3%	50/60±3%	50/60±3%	50/60±3%
THDV (Linear load)	<3%	<3%	<3%	<3%
Max. efficiency	92%	92%	92%	92%
Overload capacity	105%~120%, 30s 120%~150%, 10s >150%, 5s	105%~120%, 30s 120%~150%, 10s >150%, 5s	105%~120%, 30s 120%~150%, 10s >150%, 5s	105%~120%, 30s 120%~150%, 10s >150%, 5s
Current crest factor	3:1	3:1	3:1	3:1
Conversion time (ms)	<10	<10	<10	<10
Output waveforms	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Power factor	0.8	0.8	0.8	0.8
General Data				
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Communication port	RS232	RS232	RS232	RS232
Noise [dB(A)]	<60	<60	<60	<60
Operating temperature range (°C)	0~+50 (>50 derating)	0~+50 (>50 derating)	0~+50 (>50 derating)	0~+50 (>50 derating)
Storage temperature range (°C)	-15~70	-15~70	-15~70	-15~70
Humidity	0~90% (Non-condensing)	0~90% (Non-condensing)	0~90% (Non-condensing)	0~90% (Non-condensing)
Altitude (m)	<5000 (>3000 derating)	<5000 (>3000 derating)	<5000 (>3000 derating)	<5000 (>3000 derating)
Dimension (D*W*H mm)	100*285*470	100*285*470	120*295*530	120*295*530
Weight (kg)	8.5	9	10.5	11

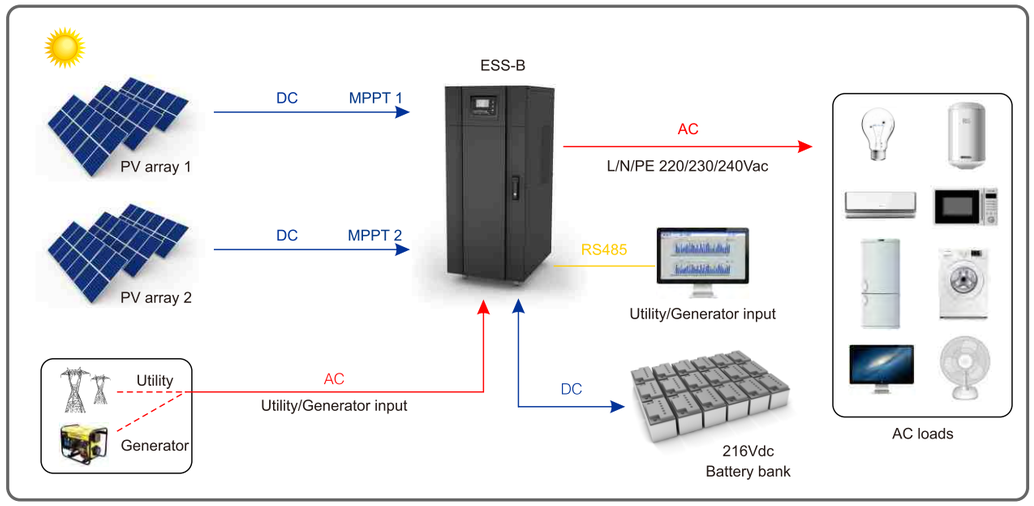
ESS-B Series 10K-20K

Single Phase Off-grid Inverter

Features

- Support utility/generator input, strong environmental adaptability
- MPPT Control algorithm, high efficient
- LCD+LED design, user-friendly interface
- Controller, inverter, isolator integrated design, easy to install and use
- Perfect protection function-battery management and temperature compensation function
- Modular design of the controller, plug and play, easy to expand
- Pure sine wave output, power frequency transformer isolation design, safe and reliable

System Diagram



Technical data	ESS-B 10K	ESS-B 20K
DC Side		
Number of MPPT	1	2
Operating voltage range (Vdc)	250~450	250~450
Recommend operating voltage (Vdc)	330	330
Max. input voltage (Vdc)	460	460
Rated input power (kW)	10	20
AC Input		
Input voltage range (Vac)	220/230/240±25%	220/230/240±25%
Input frequency range (Hz)	50/60±5%	50/60±5%
Max. charge power (kW)	2.4	2.4
Max. charge current (A)	10	10
Inverter		
Rated output power (kVA/kW)	10/8	20/16
Output voltage (Vac)	220/230/240	220/230/240
Output frequency (Hz)	50	50
THDV (Linear load)	<3%	<3%
Overload capacity	105%~110%; 10 mins 110%~125%; 1 mins >125%; 10s	105%~110%; 10 mins 110%~125%; 1 mins >125%; 10s
Crest factor	3:1	3:1
Power factor	0.8	0.8
Isolation mode	Power frequency transformer	Power frequency transformer
Output waveform	Pure sine wave	Pure sine wave
Battery		
Battery voltage (Vdc)	216	216
Battery type	Lead-acid battery	Lead-acid battery
Controller Module		
Model	SC22050-ESS	SC22050-ESS
Control mode	MPPT	MPPT
MPPT efficiency	>99.5%	>99.5%
MPPT voltage range (Vdc)	250~450	250~450
Max. input voltage (Vdc)	460	460
Max. input power (kW)	11	11
Max. input current (A)	50	50
Max. efficiency	98%	98%
Dimension (D*W*H mm)	356*415*84.5	356*415*84.5
Weight (kg)	11	11
General Data		
Display	LCD+LED	LCD+LED
Communication port	RS485, Dry contact	RS485, Dry contact
Operating temperature range (°C)	-20~+50 (>50°C derating)	-20~+50 (>50°C derating)
Operating humidity	0~95% (Non-condensing)	0~95% (Non-condensing)
Operating altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)
Dimension (D*W*H mm)	610*455*1125	610*455*1125
Weight (kg)	101	124

MPPT number equals to the controller module number
The parameters of this table are parameters of a single module

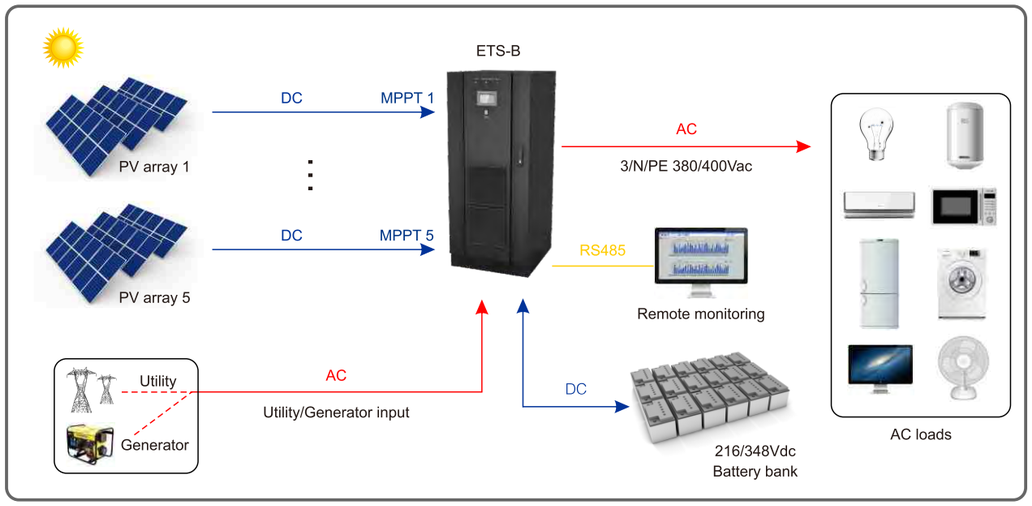
ETS-B Series 10K-60K

Three Phase Off-grid Inverter

Features

- Power frequency transformer isolation design, safe and reliable
- MPPT Control algorithm, high efficient
- Support utility/generator input, strong environmental adaptability
- LCD+LED design, user-friendly interface
- Controller, inverter, isolator integrated design, easy to install and use
- Three phase pure sine wave output, support 100% unbalance load
- Perfect protection function-battery management and temperature compensation function
- Modular design of the controller, plug and play, easy to expand

System Diagram



Technical data	10K	20K	30K	40K	50K	60K
DC Side						
Number of MPPT	1	2	3	3	4	4
MPPT voltage range (Vdc)	250~450	250~450	250~450	420~650	420~650	420~650
Recommend operating voltage (Vdc)	330	330	330	480	480	480
Max. input voltage (Vdc)	460	460	460	660	660	660
Numbers of controller module	1	2	3	3	4	4
AC Input						
Input voltage range (Vac)	380/400±20%	380/400±20%	380/400±20%	380/400±20%	380/400±20%	380/400±20%
Input frequency range (Hz)	50/60±5%	50/60±5%	50/60±5%	50/60±5%	50/60±5%	50/60±5%
Max. charge power (kW)	7.5	15	22.5	30	37.5	45
Max. charge current (A)	31.25	62.5	93.75	76.9	96.15	115.38
Inverter						
Rated output power (kVA/kW)	10/10	20/20	30/30	40/40	50/50	60/60
Output voltage (Vac)	380/400	380/400	380/400	380/400	380/400	380/400
Output frequency (Hz)	50/60±1%	50/60±1%	50/60±1%	50/60±1%	50/60±1%	50/60±1%
THDV (Linear load)	<3%	<3%	<3%	<3%	<3%	<3%
Overload capacity	105%~110%, 10 mins; 110%~125%, 1 min; >125%, 10s					
Crest factor	3:1	3:1	3:1	3:1	3:1	3:1
Isolation mode	Power frequency transformer					
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Battery						
Battery voltage (Vdc)	216	216	216	348	348	348
Battery type	Lead-acid	Lead-acid	Lead-acid	Lead-acid	Lead-acid	Lead-acid
Controller Module						
Model	SC22050-ESS	SC22050-ESS	SC22050	SC35040	SC35040	SC35040
Control mode	MPPT	MPPT	MPPT	MPPT	MPPT	MPPT
MPPT efficiency	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%
MPPT voltage range (Vdc)	250~450	250~450	250~450	420~650	420~650	420~650
Max. input voltage (Vdc)	460	460	460	660	660	660
Max. input power (kW)	11	11	11	16	16	16
Max. input current (A)	45	45	45	35	35	35
Output voltage range (Vdc)	192~264	192~264	192~264	310~420	310~420	310~420
Max. output current (A)	50	50	50	40	40	40
Max. efficiency	98%	98%	98%	98%	98%	98%
Dimension (D*W*H mm)	356*415*84.5	356*415*84.5	436*335*84.5	436*335*84.5	436*335*84.5	436*335*84.5
Weight (kg)	11	11	11	11	11	11
General Data						
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Communication port	RS485, Dry contact					
Operating temperature range (°C)	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50
Operating humidity	0~95% (Non-condensing)					
Operating altitude (m)	<6000 (>3000 derating)					
Dimension (D*W*H mm)	460*560*1050	460*560*1050	500*600*1450	500*600*1450	600*600*1600	600*600*1600
Weight (kg)	155	195	270	300	320	350

MPPT number equals to the controller module number
The parameters of this table are parameters of a single module

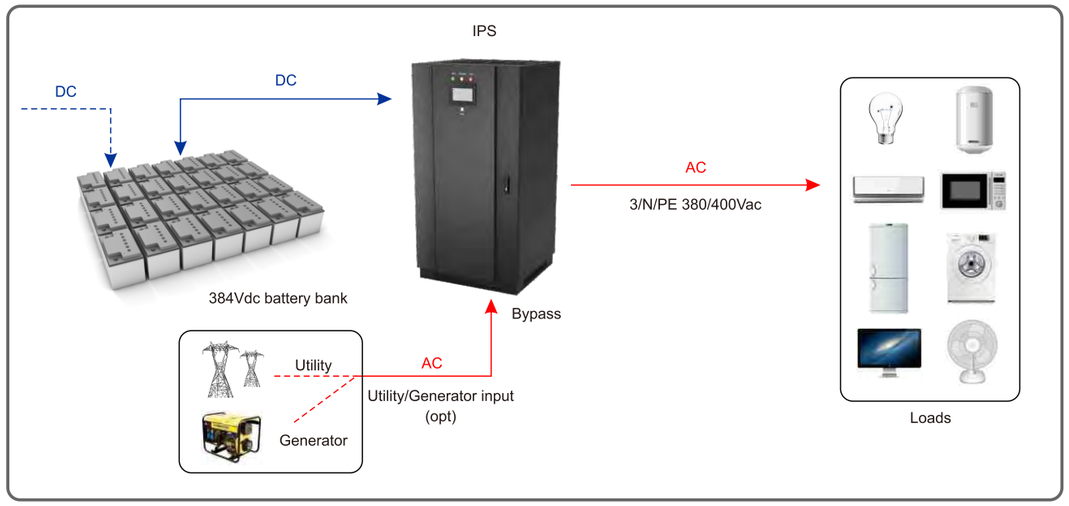
IPS Series 80K-160K

Three Phase Off-grid Inverter

Features

- Built-in isolation transformer, safe and reliable
- Intelligent fan speed regulation and fault diagnosis function
- RS485 communication, able to achieve remote monitoring function
- LCD touch screen display and LED status indicator design
- Support unbalance three phase load, great overload capability
- Pure sine wave output, max. efficiency up to 95%, suitable for various loads
- Perfect under voltage, over temperature, overload and short circuit protection function etc.

System Diagram



Technical data	IPS 80K	IPS 100K	IPS 120K	IPS 160K
DC Side				
Rated input voltage (Vdc)	384	384	384	384
Rated input current (A)	175	218	270	350
Input voltage range (Vdc)	345~480	345~480	345~480	345~480
AC Side				
Input voltage range (Vac)	380/400±25%	380/400±25%	380/400±25%	380/400±25%
Input frequency range (Hz)	50/60±5%	50/60±5%	50/60±5%	50/60±5%
Max. charge power (kW)	60	75	90	120
Max. charge current (A)	140	174	209	279
Inverter				
Rated output power (kVA/kW)	80/64	100/80	120/96	160/128
Output voltage (Vac)	380/400	380/400	380/400	380/400
Output frequency (Hz)	50±0.25	50±0.25	50±0.25	50±0.25
Rated output current (A)	121	152	182	242
THDV (Linear load)	<3%	<3%	<3%	<3%
Max. efficiency	95%	95%	95%	95%
Overload capability	105%~110%, 10 min; 110%~125%, 1 min; >150%, 10s	105%~110%, 10 min; 110%~125%, 1 min; >150%, 10s	105%~110%, 10 min; 110%~125%, 1 min; >150%, 10s	105%~110%, 10 min; 110%~125%, 1 min; >150%, 10s
Current crest factor	3:1	3:1	3:1	3:1
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Power factor	0.8	0.8	0.8	0.8
General Data				
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Cooling concept	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Communication port	RS485	RS485	RS485	RS485
Operating temperature range (°C)	-20~+50 (>50°C derating)	-20~+50 (>50°C derating)	-20~+50 (>50°C derating)	-20~+50 (>50°C derating)
Humidity	0~95% (Non-condensing)	0~95% (Non-condensing)	0~95% (Non-condensing)	0~95% (Non-condensing)
Altitude (m)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)	<6000 (>3000 derating)
Dimension (D*W*H)	800*700*1700	800*700*1700	800*700*1700	900*800*1800
Weight (kg)	750	800	950	1100

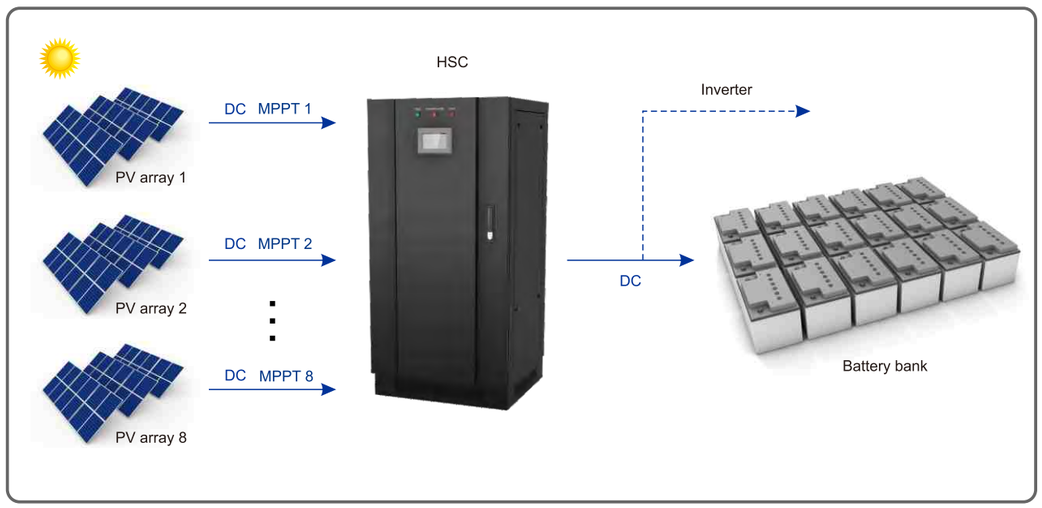
HSC Series 220M4/6/8 350M4/6/8 380M4/6/8

MPPT Solar Charge Controller

Features

- Perfect protection function
- Smart battery management, with temperature compensation function
- MPPT Control algorithm, high efficient
- LCD+LED design, user-friendly interface
- With RS485/Dry contact communicaiton function, support remote monitoring
- Modular design of the controller, plug and play, easy to expand

System Diagram



Technical data	HSC220M4	HSC220M4	HSC220M4	HSC220M4	HSC220M6	HSC220M6	HSC220M8	HSC220M8
DC Side								
System rated power (kW)	10	20	30	40	50	60	70	80
Model of controller module	SC22050	SC22050	SC22050	SC22050	SC22050	SC22050	SC22050	SC22050
Input module number	1	2	3	4	5	6	7	8
Rated power of single module (kW)	10	10	10	10	10	10	10	10
Max. input power of single module (kW)	11	11	11	11	11	11	11	11
Max. input current of single module (A)	45	45	45	45	45	45	45	45
MPPT voltage range (Vdc)	250~450	250~450	250~450	250~450	250~450	250~450	250~450	250~450
Max. input voltage (Vdc)	460	460	460	460	460	460	460	460
Recommend operating voltage (Vdc)	330	330	330	330	330	330	330	330
Battery								
Rated voltage (Vdc)	216	216	216	216	216	216	216	216
Rated current (A)	50	100	150	200	250	300	350	400
General Data								
Max. system efficiency	96%	96%	96%	96%	96%	96%	96%	96%
MPPT efficiency	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%
Standby consumption (W)	<30	<30	<30	<30	<30	<30	<30	<30
Noise[dB (A)]	<50	<50	<50	<50	<50	<50	<50	<50
Cooling concept	Forced air cooling							
Protection grade	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Communication port	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Storage capacity	Max. 200 alarm record							
Operating temperature range (°C)	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50
Storage temperature range (°C)	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70
Humidity	0~95% (Non- condensing)							
Altitude (m)	<6000(>3000 derating)							
Dimension (D*W*H mm)	550*580*900	550*580*900	550*580*900	550*580*900	550*580*1200	550*580*1200	550*580*1400	550*580*1400
Weight (kg)	71	82	93	104	135	146	177	188

Technical data	HSC350M4	HSC350M4	HSC350M4	HSC350M4	HSC350M6	HSC350M6	HSC350M8	HSC350M8
DC Side								
System rated power (kW)	15	30	45	60	75	90	105	120
Model of controller module	SC35040	SC35040	SC35040	SC35040	SC35040	SC35040	SC35040	SC35040
Input module number	1	2	3	4	5	6	7	8
Rated power of single module (kW)	15	15	15	15	15	15	15	15
Max. input power of single module (kW)	16	16	16	16	16	16	16	16
Max. input current of single module (A)	35	35	35	35	35	35	35	35
MPPT voltage range (Vdc)	420~650	420~650	420~650	420~650	420~650	420~650	420~650	420~650
Max. input voltage (Vdc)	660	660	660	660	660	660	660	660
Recommend operating voltage (Vdc)	480	480	480	480	480	480	480	480
Battery								
Rated voltage (Vdc)	348	348	348	348	348	348	348	348
Rated current (A)	40	80	120	160	200	240	280	320
General Data								
Max. system efficiency	96%	96%	96%	96%	96%	96%	96%	96%
MPPT efficiency	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%
Standby consumption (W)	<30	<30	<30	<30	<30	<30	<30	<30
Noise[dB (A)]	<50	<50	<50	<50	<50	<50	<50	<50
Cooling concept	Forced air cooling							
Protection grade	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Communication port	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Storage capacity	Max. 200 alarm record							
Operating temperature range (°C)	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50
Storage temperature range (°C)	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70
Humidity	0~95% (Non- condensing)							
Altitude (m)	<6000(>3000 derating)							
Dimension (D*W*H mm)	550*580*900	550*580*900	550*580*900	550*580*900	550*580*1200	550*580*1200	550*580*1400	550*580*1400
Weight (kg)	72	83	94	105	136	147	178	189

Technical data	HSC380M4	HSC380M4	HSC380M4	HSC380M4	HSC380M6	HSC380M6	HSC380M8	HSC380M8
DC Side								
System rated power (kW)	20	40	60	80	100	120	140	160
Model of controller module	SC38050	SC38050	SC38050	SC38050	SC38050	SC38050	SC38050	SC38050
Input module number	1	2	3	4	5	6	7	8
Rated power of single module (kW)	20	20	20	20	20	20	20	20
Max. input power of single module (kW)	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Max. input current of single module (A)	45	45	45	45	45	45	45	45
MPPT voltage range (Vdc)	450~750	450~750	450~750	450~750	450~750	450~750	450~750	450~750
Max. input voltage (Vdc)	760	760	760	760	760	760	760	760
Recommend operating voltage (Vdc)	540	540	540	540	540	540	540	540
Battery								
Rated voltage (Vdc)	384	384	384	384	384	384	384	384
Rated current (A)	50	50	50	50	50	50	50	50
General Data								
Max. system efficiency	96%	96%	96%	96%	96%	96%	96%	96%
MPPT efficiency	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%	>99.5%
Standby consumption (W)	<30	<30	<30	<30	<30	<30	<30	<30
Noise[dB (A)]	<50	<50	<50	<50	<50	<50	<50	<50
Cooling concept	Forced air cooling							
Protection grade	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Communication port	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
Storage capacity	Max. 200 alarm record							
Operating temperature range (°C)	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50	-20~+50
Storage temperature range (°C)	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70	-25~+70
Humidity	0~95% (Non- condensing)							
Altitude (m)	<6000(>3000 derating)							
Dimension (D*W*H mm)	550*580*900	550*580*900	550*580*900	550*580*900	550*580*1200	550*580*1200	550*580*1400	550*580*1400
Weight (kg)	73	84	95	106	137	148	179	190

Partial Projects In China

Solar Pumping System Project References

187kW solar pumping system project, Kunming, Yunnan, China

Location: Kunming **Capacity:** 187kW **Model:** SPRING 37K-A、SPRING 75K-A


15kW solar pumping system project,Sanya, Hainan, China

Location: Sanya **Capacity:** 15kW **Model:** SPRING 15K-A


5.5kW solar pumping system project, Ningxia, China

Location: Ningxia **Capacity:** 5.5kW **Model:** SPRING 5500-A


4.4kW solar pumping system project, Sichuan, China

Location: Sichuan **Capacity:** 4.4kW **Model:** SPRING 2200-SA


Partial Projects In abroad

Solar Pumping System Project References

55kW solar pumping system project, Yemen

Location: Yemen **Capacity:** 55kW **Model:** SPRING 55K


22kW solar pumping irrigation project, India

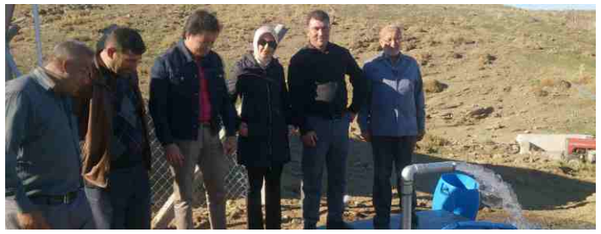
Location: New Delhi **Capacity:** 22kW **Model:** SPRING 22K


15kW solar pumping system project, Egypt

Location: Egypt **Capacity:** 15kW **Model:** SPRING 15K-A


11kW solar pumping system project,Turkey

Location: Turkey **Capacity:** 11kW **Model:** SPRING 5500

Partial Projects In Abroad

Solar Pumping System Project References

11kW solar pumping irrigation project, Vietnam

Location: Vietnam **Capacity:** 11kW **Model:** SPRING 11K

11kW solar pumping system project, Cambodia

Location: Cambodia **Capacity:** 11kW **Model:** SPRING 11K

11kW solar pumping system project, Malaysia

Location: Malaysia **Capacity:** 11kW **Model:** SPRING 1100-A

5.5kW solar pumping irrigation project, Tanzania

Location: Tanzania **Capacity:** 5.5kW **Model:** SPRING 5500-A

Partial Projects In Abroad

Solar Pumping System Project References

5.5kW solar pumping system project, Sudan

Location: Sudan **Capacity:** 5.5kW **Model:** SPRING 5500

4kW solar pumping system project, Kenya

Location: Kenya **Capacity:** 4.0kW **Model:** SPRING 4000-A

3kW solar pumping irrigation project, Nepal

Location: Nepal **Capacity:** 3.0kW **Model:** SPRING 3000

3kW solar pumping system project, Chile

Location: Chile **Capacity:** 3.0kW **Model:** SPRING 3000-S

Partial Projects In China

Off-grid System Project References

840kVA PV micro-grid system project, Xinjiang, China

Location: Xinjiang **Capacity:** 840kVA **Model:** HSC 380M6、IPS 120K


50kVA PV off-grid system project, Anhui, China

Location: Anhui **Capacity:** 50kVA **Model:** ETS 50K


30kVA PV off-grid system project, Zhuhai, Guangdong, China

Location: Zhuhai **Capacity:** 30kVA **Model:** ETS 30K


20kVA PV off-grid system project, Xian, Shanxi, China

Location: Xian **Capacity:** 20kVA **Model:** ESS 20K


Partial Projects In China

Off-grid System Project References

20kVA PV off-grid system project, Yantai, Shandong, China

Location: Yantai **Capacity:** 20kVA **Model:** ETS 20K


20kVA PV off-grid system project, Inner Mongolia, China

Location: Inner Mongolia **Capacity:** 20kVA **Model:** ETS 20K


10kVA PV off-grid system project, Ningxia, China

Location: Ningxia **Capacity:** 10kVA **Model:** ESS 10K


5kVA PV off-grid system project, Liaoning, China

Location: Liaoning **Capacity:** 5.0kVA **Model:** XPI 5KVA


Partial Projects In Abroad

Off-grid System Project References

116kVA PV off-grid system project, Burundi

Location: Burundi **Capacity:** 116kVA **Model:** ETS 40K


80kVA PV off-grid system project, Thailand

Location: Thailang **Capacity:** 80kVA **Model:** HSC 380M4、IPS 80K


60kVA PV off-grid system project, Sweden

Location: Sweden **Capacity:** 60kVA **Model:** ETS 60K


60kVA PV off-grid system project, Indonesia

Location: Indonesia **Capacity:** 60kVA **Model:** ETS 60K


Partial Projects In Abroad

Off-grid System Project References

60kVA PV off-grid system project, Micronesia

Location: Micronesia **Capacity:** 60kVA **Model:** ETS 60K


20kVA PV off-grid system project, Australia

Location: Australia **Capacity:** 20kVA **Model:** ESS 20K


10kVA PV off-grid system project, Iran

Location: Iran **Capacity:** 10kVA **Model:** ETS 10K


7kVA PV off-grid system project, South Africa

Location: South Africa **Capacity:** 7.0kVA **Model:** XPI 7KVA