



SOLAR ON-OFF GRID INVERTER

Power 24 / 48V
2400/ 3500 / 5000 / 5500W

SOHIGH
SOLAR



Low Voltage Protection



Overload Protection



Overheat Protection



Over Current Protection



Short Circuit Protection



50/60Hz Auto Frequency Range

SOHIGH SOLAR ON-OFF GRID INVERTER DATA SHEET

Model	Sohigh Off Grid 3K(Pro)	Sohigh On-Off Grid 4K	Sohigh On-Off Grid 7K	Sohigh On-Off Grid 6P
Rated Power	3KVA(2400W)	4KVA(3500W)	7KVA(5500W)	6KVA(5000W)
Parallel Capability	No	No	No	Yes, up to 6 units
Parallel Mode	No	No	No	Yes, Single phase or Three Phase (Flexible)
Work without Battery	No	Yes	Yes	Yes

INPUT				
Voltage	24VDC	24VDC	48VDC	48VDC
Voltage Range	176-280 VAC at 100% load 110-280 VAC at 50% load			
Frequency Range	50Hz/60Hz(Auto sensing)			

OUTPUT				
AC Voltage Regulation(Batt.Mode)	220VAC~230VAC / 110VAC~120VAC (Optional)			
Surge Power	4800VA for 5 sec	7000VA for 5 sec	11000VA for 5 sec	10000VA for 5 sec
Efficiency(Peak)	>95% (Rated R load, battery full charged)			
Transfer Time	10ms typical (UPS) 20ms typical (Appliances)			
Waveform	Pure sine wave			

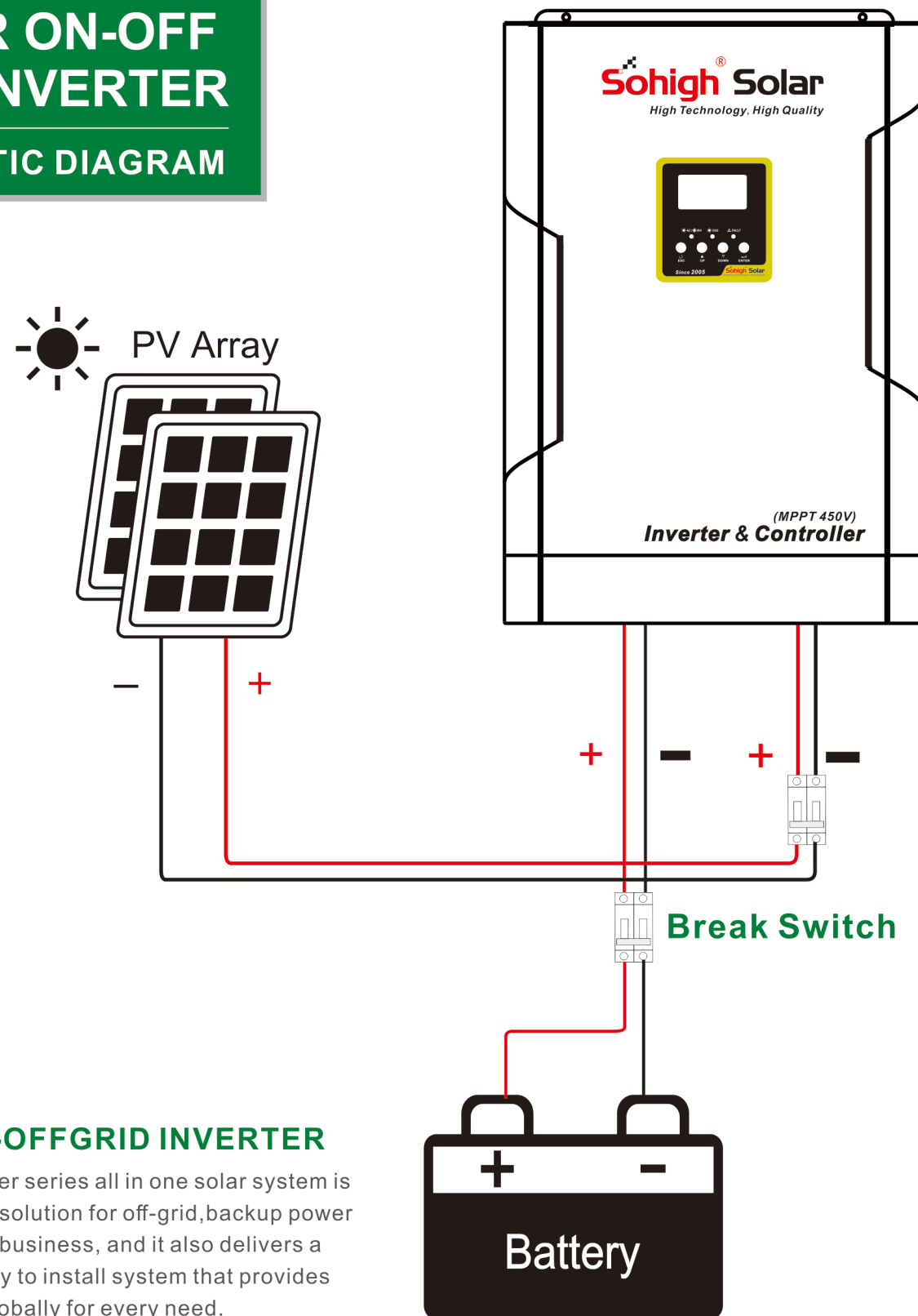
BATTERY				
Battery Voltage	24 VDC	24 VDC	48 VDC	48 VDC
Floating Charge Voltage	27 VDC	27 VDC	54 VDC	54 VDC
Overcharge Protection	32 VDC	32 VDC	64 VDC	64 VDC

SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Open Circuit Voltage	120 VOC	500 VOC	500 VOC	500 VOC
Maximum PV Array Power	1500W	5000W	6000W	5000W
MPPT Range Operating Voltage	60-115VDC	120-450VDC	120-450VDC	120-450VDC
MPPT Charge Current	60A	100A	100A	80A
Maximum AC Charge Current	60A	60A	60A	60A

PHYSICAL	
Communication (Additional)	Removable OTG USB/RS232/RS458/BLE/Dry-contact,BMS interface

OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C to 55°C	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Storage Temperature	-10°C to 60°C	-15°C to 60°C	-15°C to 60°C	-15°C to 60°C
Dimension, D x W x H (mm)	575*195*405			
Weight (kgs)	10.4	11.45	12.5	13.15
*Product specifications are subject to change without further notice				

SOLAR ON-OFF GRID INVERTER SCHEMATIC DIAGRAM



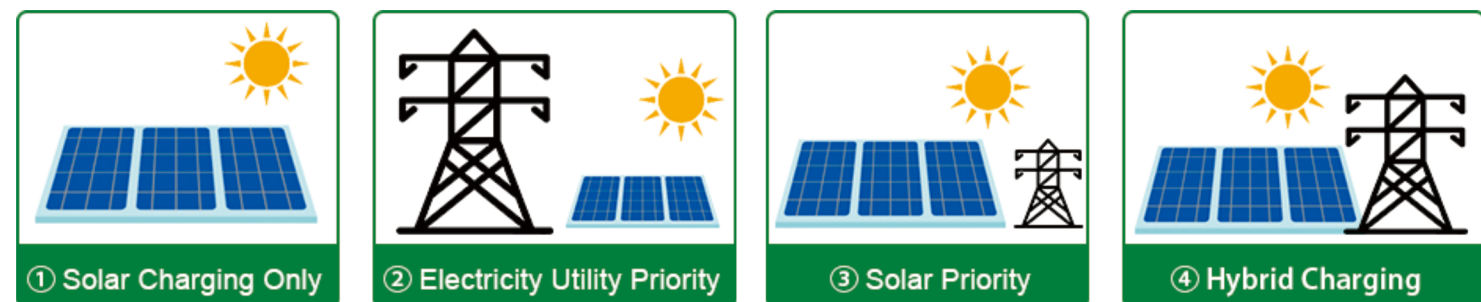
SOLAR ON-OFFGRID INVERTER

The hybrid inverter series all in one solar system is the perfect go-to solution for off-grid, backup power for homes, small business, and it also delivers a value added, easy to install system that provides efficient power globally for every need.

Advantage Of The Solution

- **Save up to 100% on electricity costs**
The sun provides your home with precious energy every day, completely free. Photovoltaic roof systems combined with our energy systems can generate and use electricity for your home, save up to 100% on energy costs, and actively help shape the energy transition.
- **24/7 uninterruptible power supply**
With the perfect combination of high-quality inverter and batteries, you are guaranteed never to lose power. Powers all required applications.
- **Easy to install**
Modular design, factory pre-installed, faster and more convenient installation.
- **Smart and visual energy management**
Supports mobile app smart monitoring to help you easily manage the energy at your fingertips.
- **Safer and friendlier to take care of children**
One-piece design for complete safety from the inside out.

Four Charging Modes



Three Load Output Modes

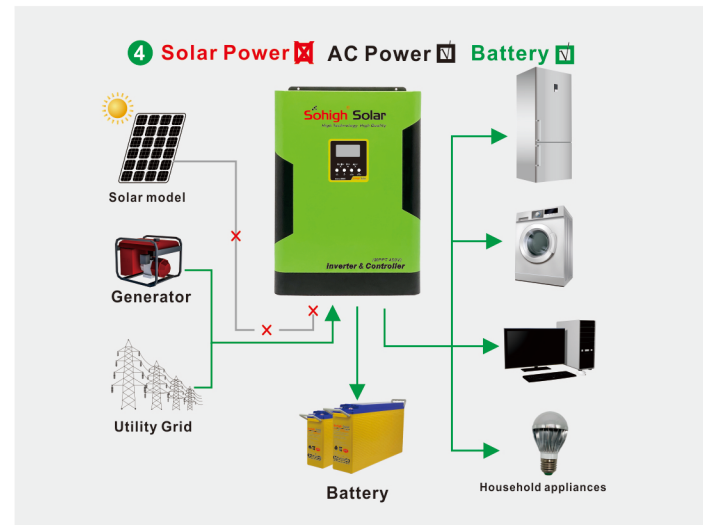
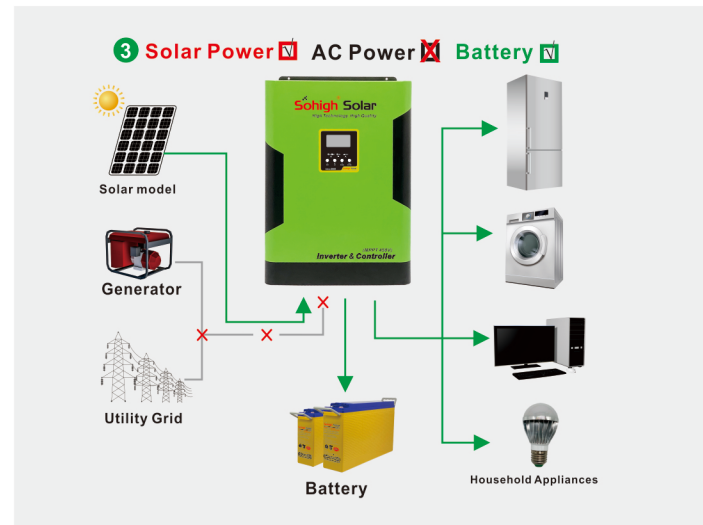
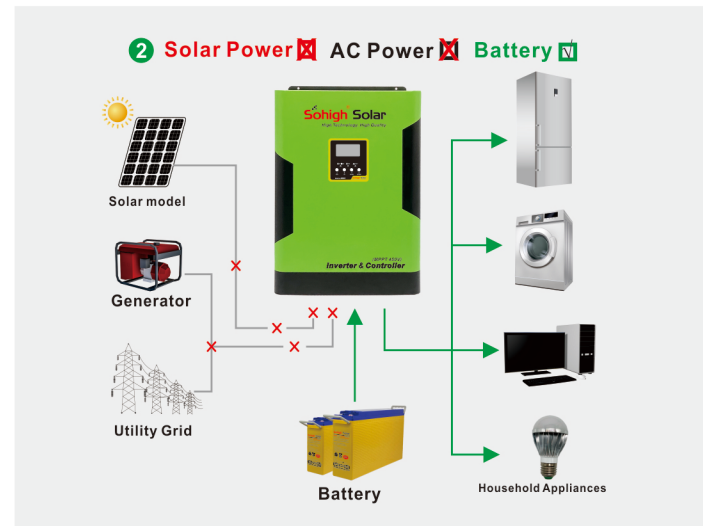
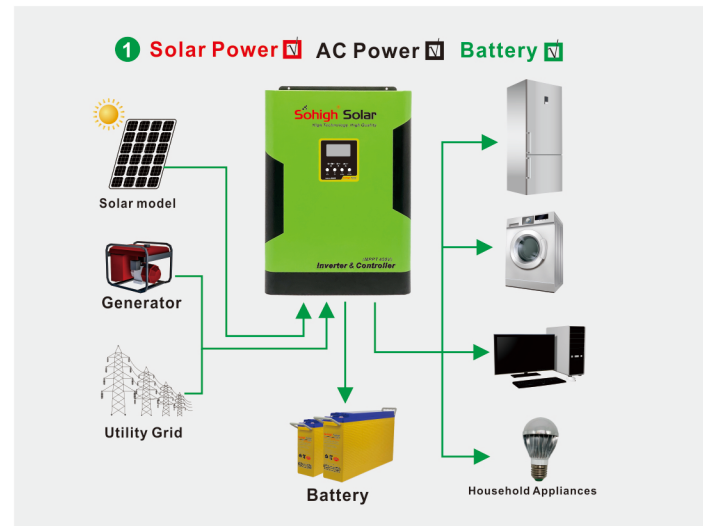


Product Features

- Build-in MPPT controller:60A-100A
- Wide PV input range:120V 450V Parallel operation up to 6 units
- Parallel operation up to 6 units
- Wi-Fi/Bule Tooth/GPRS Function(optional)
- Working Without Batteries
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Full digital LED Display
- Overall protection functions, such as battery overcharge protection, battery under voltage protection, overload and short circuit protection, etc..

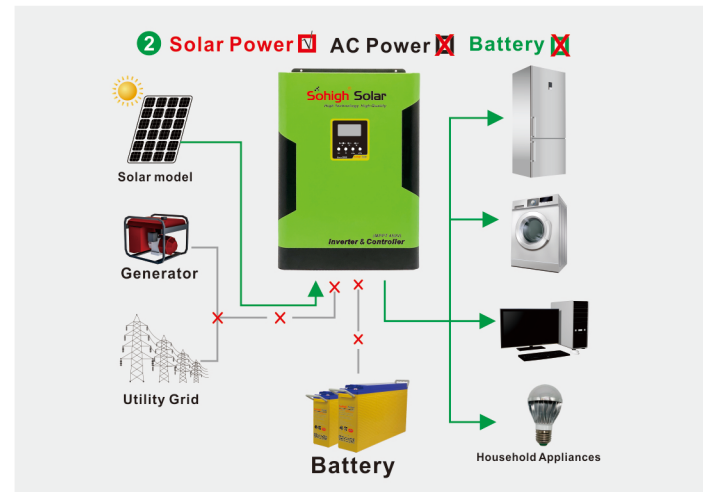
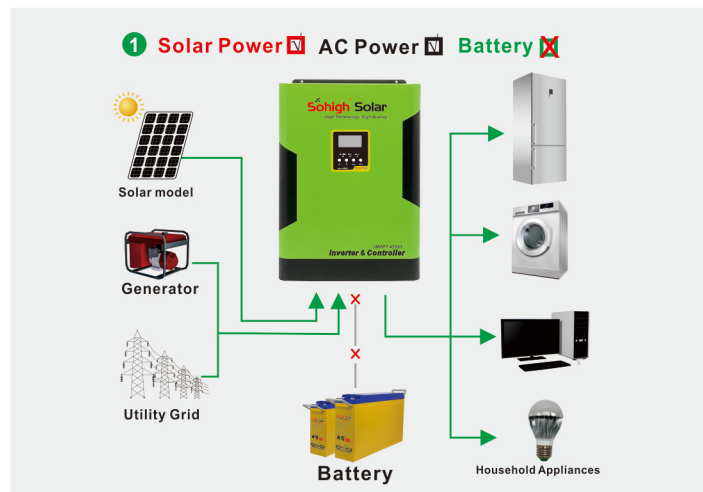
With Battery Connected

Model: Sohig Off Grid 3K(Pro) Sohig On-Off Grid 4K Sohig On-Off Grid 7K Sohig On-Off Grid 6P



Without Battery Connected

Model: Sohig On-Off Grid 4K Sohig On-Off Grid 7K Sohig On-Off Grid 6P

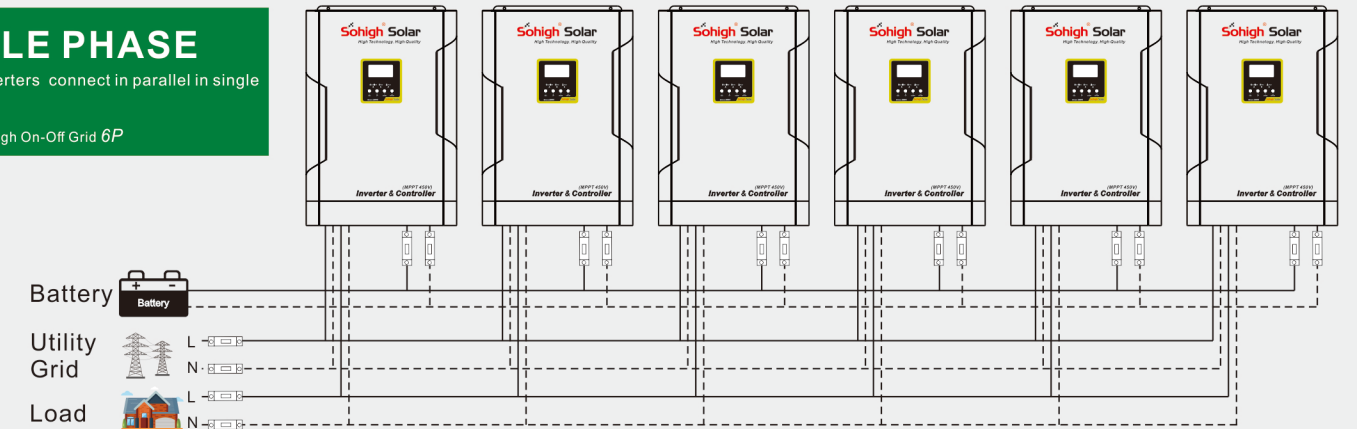


SERIES PARALLEL CONNECTION

SINGLE PHASE

6 pieces inverters connect in parallel in single phase

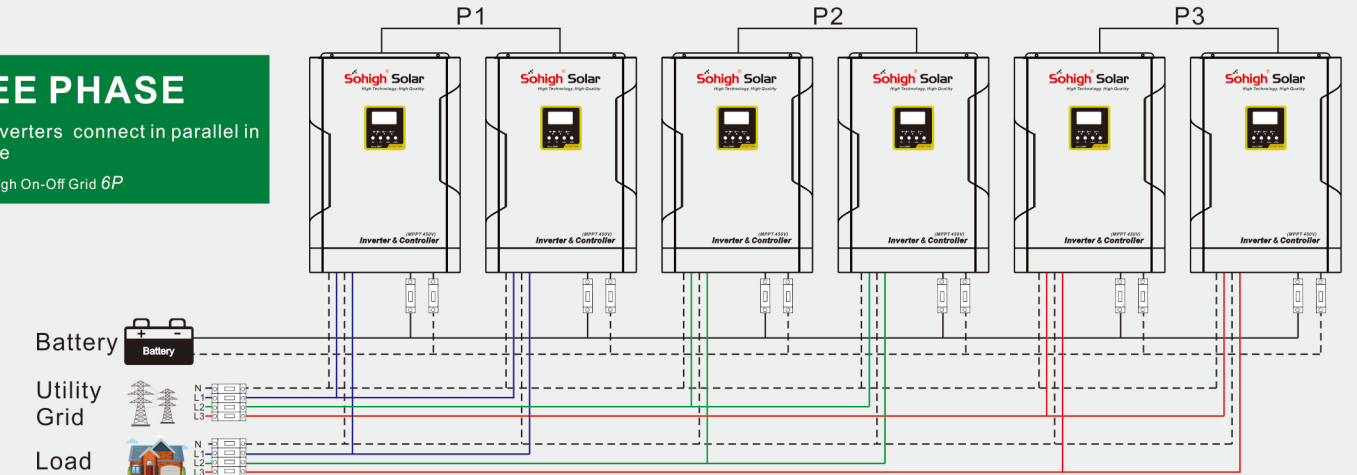
Model: Sohig On-Off Grid 6P



THREE PHASE

6 pieces inverters connect in parallel in three phase

Model: Sohig On-Off Grid 6P



Sohigh Solar
High Technology. High Quality

Experience start from 2005
Expérience à partir de

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Show Room @ : Sohig Solar Office, Block A Yueyang Trade Mall, Yuexiu District Guangzhou.
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Web: www.sohighsolar.com
Brand 'Sohigh Solar' had registered in U.S., Europe, Africa etc.
La marque 'Sohigh Solar' s'était enregistrée aux États-Unis, en Europe, en Afrique, etc.