

Hybrid Solar Inverter

5.5KW Parallel 12

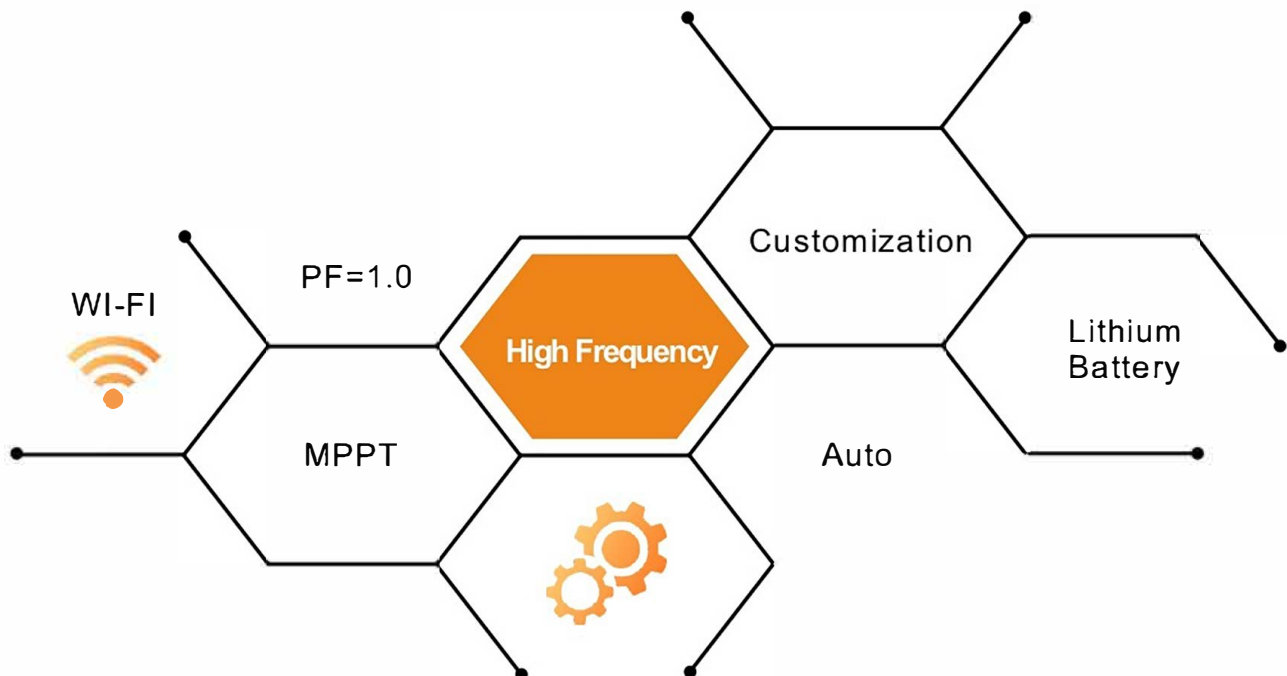


Hybrid Solar Inverter 5.5KW

- Pure sine wave inverter
- Built-in MPPT solar controller
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Smart Wifi remote monitoring (optional)
- RS485 communication for BMS(Optional)
- Parallel operation with up to 12 units, support parallel in 1phase/3phase, support wireless parallel

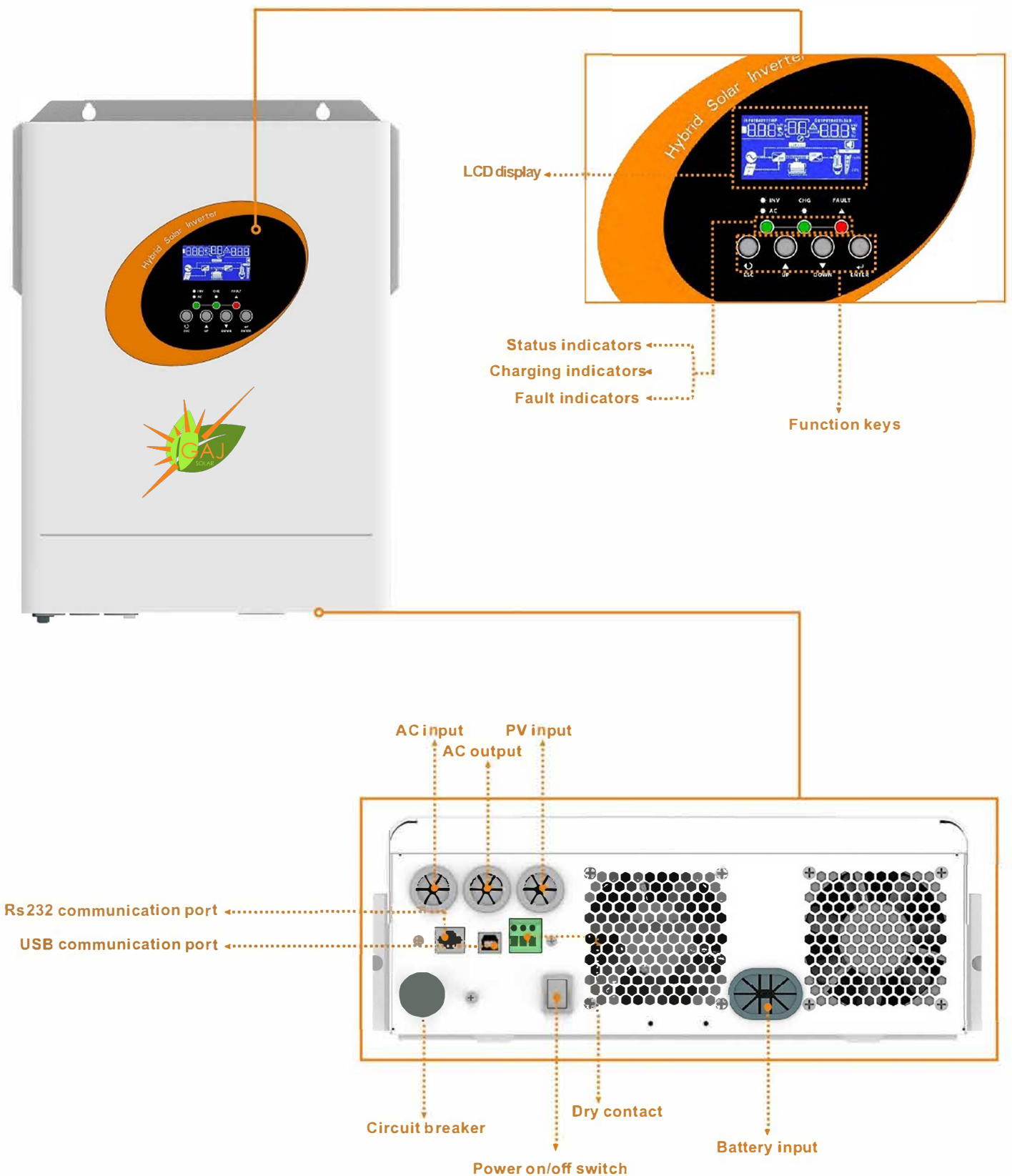


Key Features



Product Details

The operation and display panel include three indicators, four function keys and a LCD display, Indicating the operating status and input/output Power information.



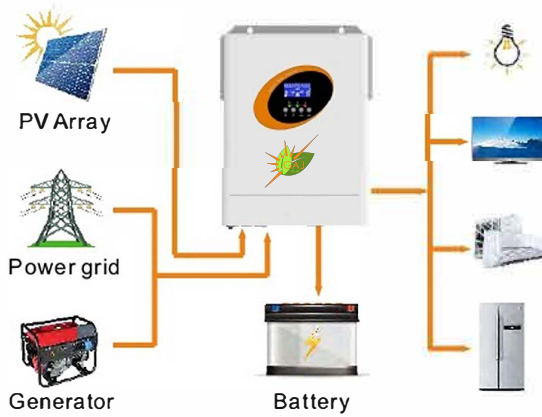
Technical Data

MODEL	GAJ- J5500HP
Capacity	5.5KW
Parallel Capability	YES, 12units
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280 VAC (For Personal Computers), 90-280 VAC (For Home Appliances)
Frequency	50/60HZ (Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC \pm 5%
Surge Power	10000VA
Frequency	50Hz/60Hz
Waveform	Pure Sine Wave
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances)
Peak Efficiency (PV to INV)	97%
Peak Efficiency (Battery to INV)	93%
overload Protection	5s@ \geq 150% load; 10s 110%~150% load
Crest Factor	3:1
Admissible Power Factor	0.6~1(inductive or capacitive)
Battery	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
Charging Method	CC/CV
Solar Charge & AC Charge	
Solar Charge Type	MPPT
Max. PV Array Power	5500W
Max. PV Array Open Circuit Voltage	500 VDC
PV Array MPPT Voltage Range	120VDC~450 VDC
Maximum Solar Input Current	18A
Maximum Solar Charge Current	100A
Maximum AC Charge Current	60A
Maximum Charge Current	100A
Communication Interface	USB/RS232/Dry-contact
Environment	
Operating Temperature	(-10°C~50°C)
Storage Temperature	(-15°C~60°C)
Humidity	5% to 95% Relative Humidity (Non-condensing)

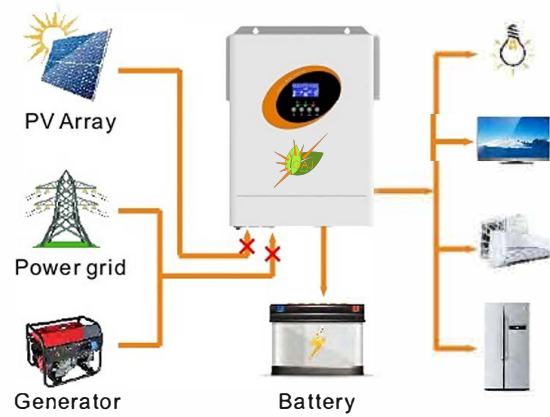
System Diagram

Operation with battery connected

1 Solar power and AC power available

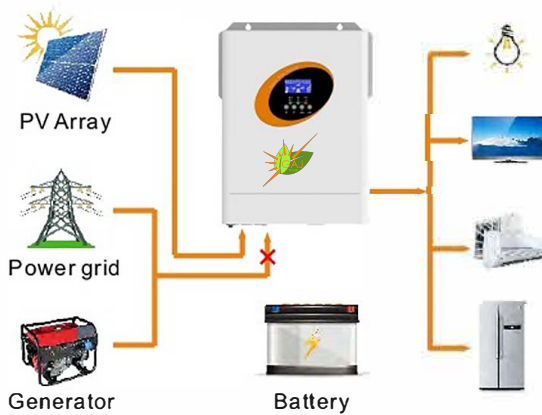


2 Solar power and AC power not available

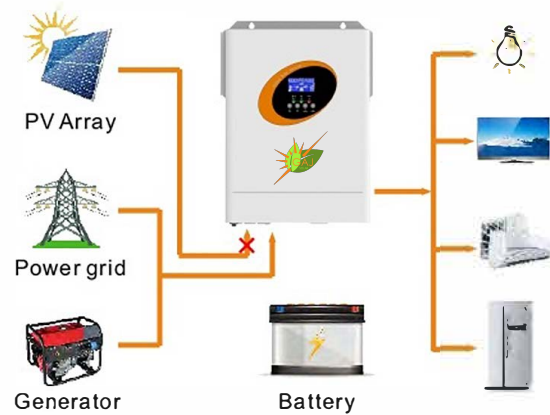


Operation without battery connected

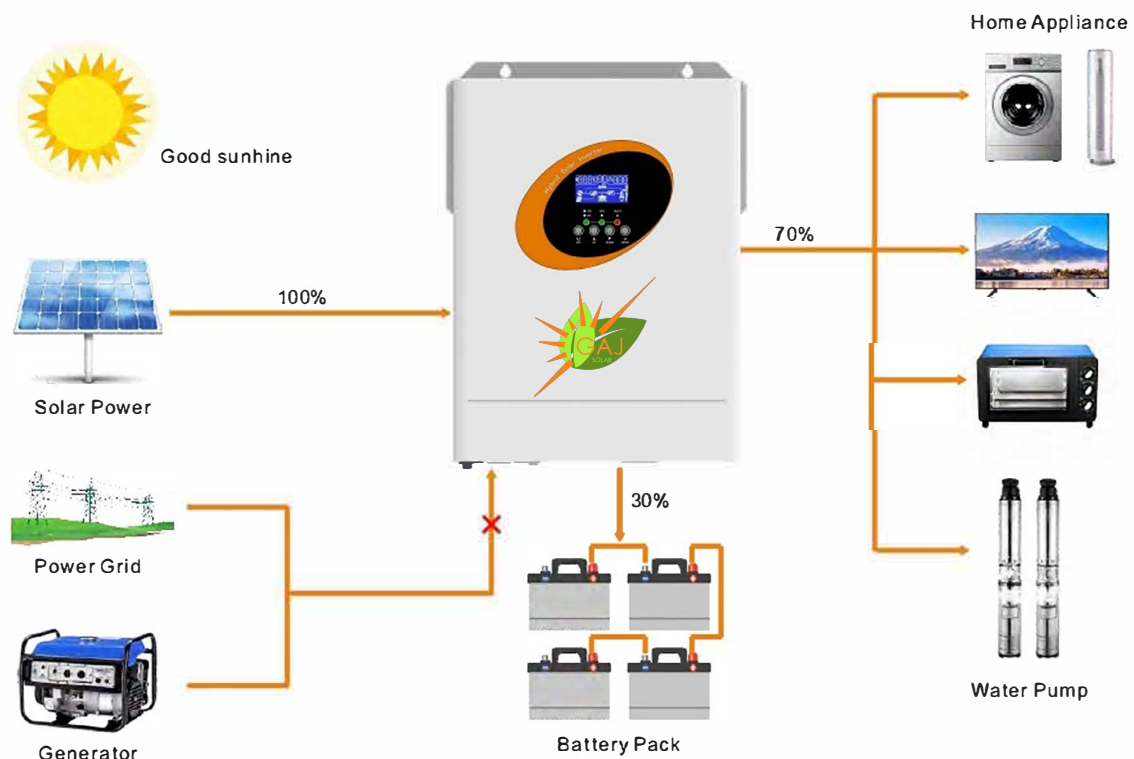
3 Solar power available



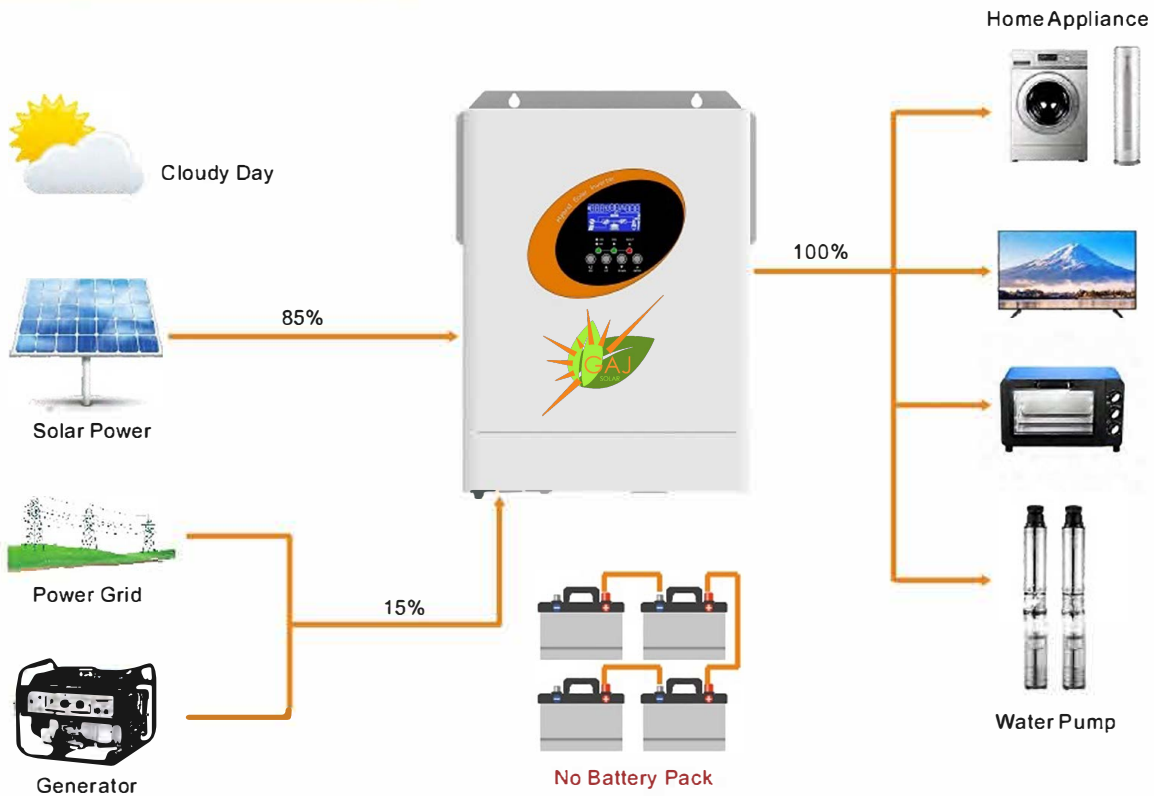
4 AC power available



When solar power is enough

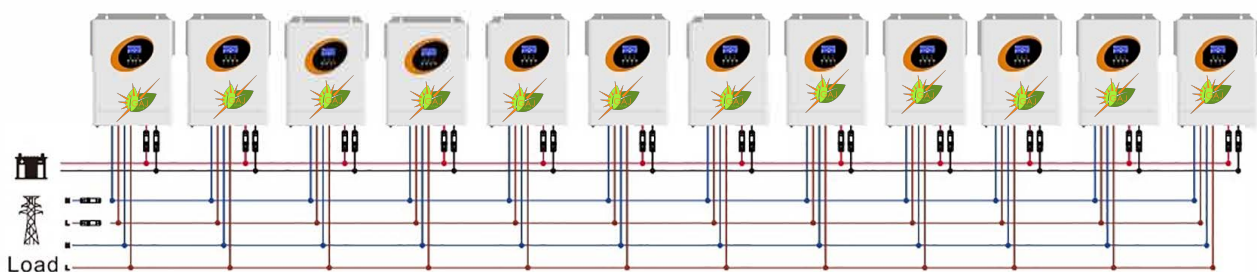


When solar power is not enough



Smart System Wi-Fi Monitor

Available to check the system working status through
The Wi-Fi monitor (optional)





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