

SO2048/3048



Features

- Low Frequency Transformer , High Safety , Strong Overload ability
- Multi-functions achieved by one device, such as independent loading, export electricity to grid , AC charge
- AC IN side support Grid or generator to improve the reliability for electricity use
Multi-Application Mode available(UPS ; Load shifting ; Intelligent Electricity Supply; Electricity Feed applicable etc) & Parameter setting
- Multi Application: can make as a DC BUS storage system with MPPT controller for the new PV system user; can add to the existed on grid solar system to make an AC BUS system ; Can make three phase system with 3 devices
- Adopt the advanced DSP & Digital Control Technology which makes the system more stable and reliable.
- Multi-type battery compatible (Lead-acid , Gel , Lithium-Battery), Battery Management function
- Three stage battery charge control (bulk \ float \ absorb)
- Recharge batteries from the grid to protect batteries when the battery is too low
- Automatic change into off grid mode when grid fails
- LCD Display, user friendly interface in multi-lingual language
- Separate product available , also can offer as system in cabinet

Applications

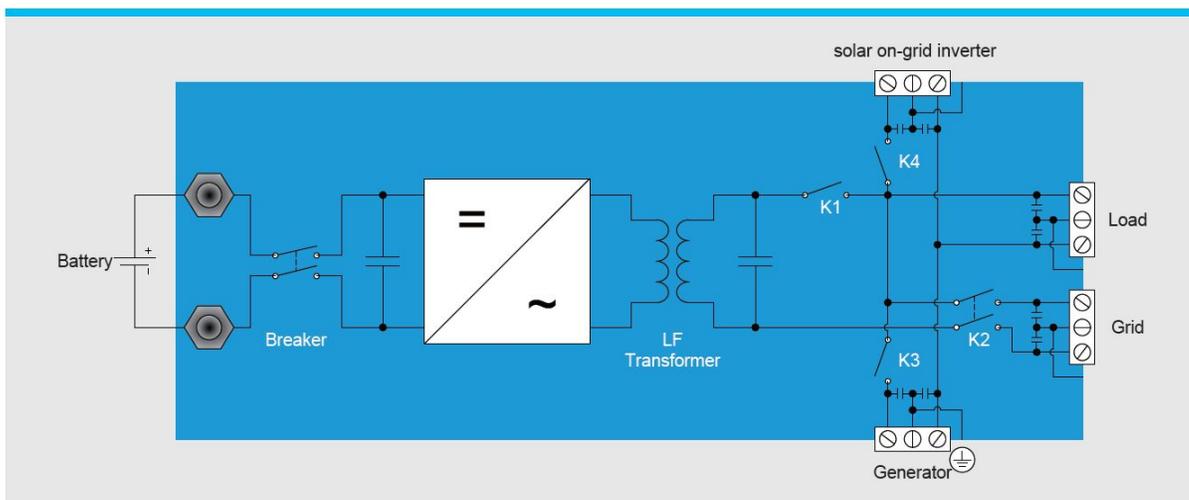
- (Mobile) communication base station
- General family-roof top projects
- Small commercial and industrial areas
- Areas where there is peak-vallery grid price or grid is not reliable



Solar Hybrid™ Series

SO Series Inverter is a comprehensive power frequency type hybrid inverter for residential and commercial use. This machine connected to battery can provide uninterrupted and stable power supply for customer even though the utility grid is failed. It can also run in the most economical and practical mode by your requirements to achieve objective economic benefits based on the comprehensive estimation and management for grid, battery energy storage unit, load and PV panel array.

DIAGRAM



Technical Data

Inverter Model		SO2048	SO3048
Battery Rated Voltage		48V	48V
Battery Voltage Range		41V – 63V	41V – 63V
Continuous rated output power		2000W	3000W
Overload Ability		2200W(30min)、3200W(5s)、4000W (surge)	3200W(30min)、4800W(5s)、6000W (surge)
Rated AC voltage	Grid Tied Voltage	220V/230V/240V	220V/230V/240V
	Inverter Voltage	220V/230V/240V	220V/230V/240V
Rated AC Frequency		50Hz/60Hz	50Hz/60Hz
Rated AC output Current		8.7A	13A
Max Efficiency		93.5%	93.5%
THD	Grid Tied Current	< 4%	< 4%
	Inverter Voltage	< 2%	< 2%
AC Input Max Current		21A	30A
AC Input Voltage Range		184Vac–264.5Vac	184Vac–264.5Vac
AC Input Frequency Range		47.5Hz–51.5Hz/57.5Hz-61.5Hz	47.5Hz–51.5Hz/57.5Hz-61.5Hz
On/Off grid Switching time		< 20ms	< 20ms
Output waveform		Pure Sine Wave	Pure Sine Wave
Isolation		Power frequency	Power frequency
Communication		RS 485	RS 485
Operating Temperature Range		0°C – 45°C	0°C – 45°C
Operating Humidity		10% – 90%	10% – 90%
Elevation		< 2000m	< 2000m
Degree of protection		Indoor (IP20)	Indoor (IP20)
Dimension(W/H/D)		480mm×300mm×158mm	480mm×300mm×158mm
Weight		25Kg	26.7Kg
Warranty(2 / 5 / 7 years)		Yes/Opt./Opt.	Yes/Opt./Opt.

Certificate

Comply with EN62109-1,EN62109-2,VDE0126-1-1,AS4777.2:2005,AS4777.3:2005 standard etc.