


Low Frequency Solar Charger Inverter SigmaMax Series (6KW)



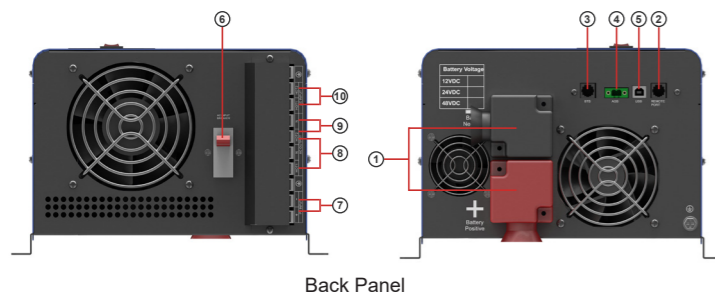
Features

- Pure sine wave output
- Friendly user interface;MFD (multi-function display)
- 3 Steps charging
- Overload and short-circuit protection
- Set charging voltage/charging current.
- Battery low voltage shutdown point can be set to 20/21/22V
- Set utility priority/ Battery priority
- Set utility input wide/narrow range
- Inverter voltage can be set to 100/110/120 (200/220/240VAC); frequency can be set to 50/60Hz
- Set utility charging on/off switch
- Built-in 80A MPPT charger

Introduction

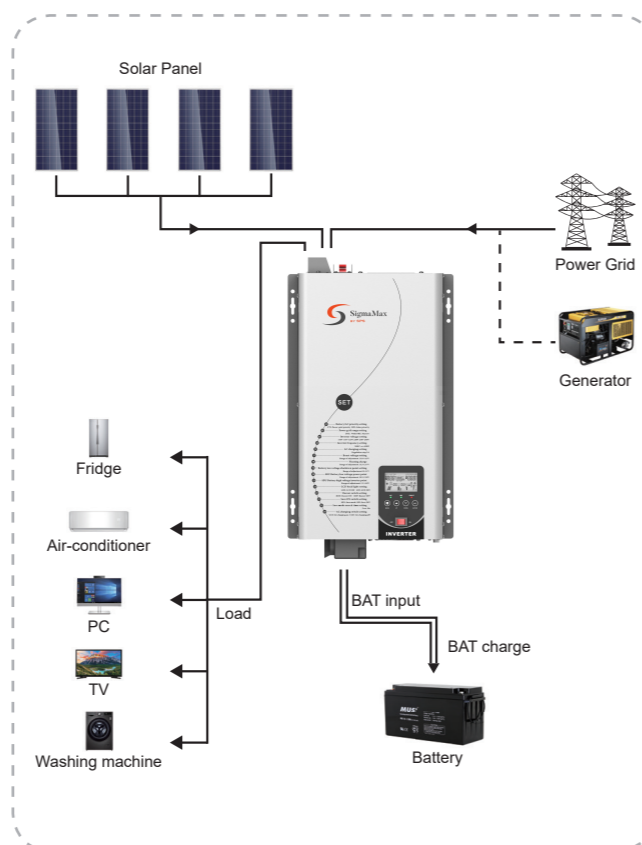
The all NEW split phase SigmaMax series from SPS, with a large 6000W 48VDC capacity, its powerful enough to carry an average whole house demand during time of needs. This 240V inverter connects to grid power, solar panels (with built-in 80A MPPT solar controller), auto charges deep cycle batteries, and when battery voltage is low, it auto-starts generators to continue charging the battery. This versatile inverter is capable to provide 120V or 240V to appliances. The design shows elegance and class while internally uses the most advanced technologies. With the easy programmable LCD display, you can customize output voltage, frequency, charging voltage, charging current to suit different load applications. SigmaMax - the all-in-one reliable inverter for residential and commercial applications.

Back panel printing description



1. Battery +/-
2. REMOTE PORT
3. BTS
4. AGS
5. USB
6. AC INPUT PROTECT: Input protect breaker
7. PV +/-
8. AC OUTPUT: HOT1 - HOT2 200VAC/220 VAC/240VAC
9. AC OUTPUT: HOT2 - N 100VAC/110 VAC/120VAC
- 10.AC INPUT: HOT1 - HOT2 200VAC/220 VAC/240VAC

Solar system connection



Specification

MODEL		SigmaMax 6048						
Inverter Output	Rated power	6KW						
	Power factor	1						
	Wave form	Pure sine wave						
	Output voltage RMS	100V\110V\120VAC (200V \ 220V \ 240VAC)±10%						
	Output frequency	50Hz or 60Hz (±0.3Hz)						
	Inverter efficiency (peak)	>85%						
	Overload	100%<Load<110% (alarm 5min then stop output) 110%<Load<125% (alarm 60s then stop output) Load > 125% (alarm 10s then stop output)						
	Surge rating	15000 VA						
	Capable of starting electric motor	3P						
	Battery	Battery voltage	48VDC					
Minimum start voltage		44VDC						
Low battery voltage cut off		40\42\44V (Low voltage fault code04)						
Low battery voltage alarm		Add 0.5V \ battery:(Low battery alarm one second one time) (40\42\44V) +2Vdc for 48v model						
High battery voltage alarm		Add +1V\battery: (high voltage one second one time\after 30s fault 03) (55.2-58) + 4V						
Save mode		Loads ≤ 80W (220V)						
AC Input Mode	Input waveform	Pure sine wave						
	Nominal input voltage	200Vac \ 220Vac \ 240Vac						
	Max input voltage	270 Vac MAX						
	Input frequency	50Hz \ 60Hz (auto sensing)						
	Efficiency (AC mode)	>95% (load, full battery)						
Charge Mode	Transfer time AC to DC	15ms (typical)						
	12V	\	\	\	\	\	\	
	24V	\	\	\	\	\	\	
	48V	\	\	\	\	\	40A	
Min charge current 10A. Change by every 5A								
Dimensions	Dimensions (W*H*D)	277*186*621mm						
	Ship Dimensions (W*H*D)	376*296*747mm						
	Warranty	One year (standard), 2 years optional						