


Low Frequency Pure Sine Wave Solar Inverter Charger

SigmaPro Series (1.5KW-4KW)



(1.5KW-3KW) 4KW

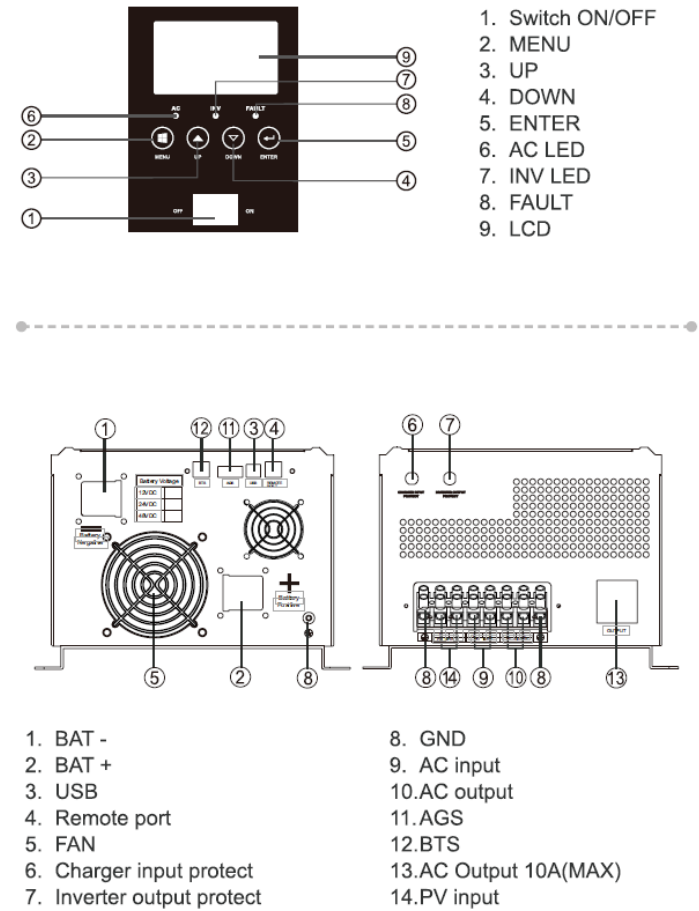
Features

- 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; frequency can be set to 50/60Hz
- Set utility charging on/off switch
- Built-in 80A MPPT charger

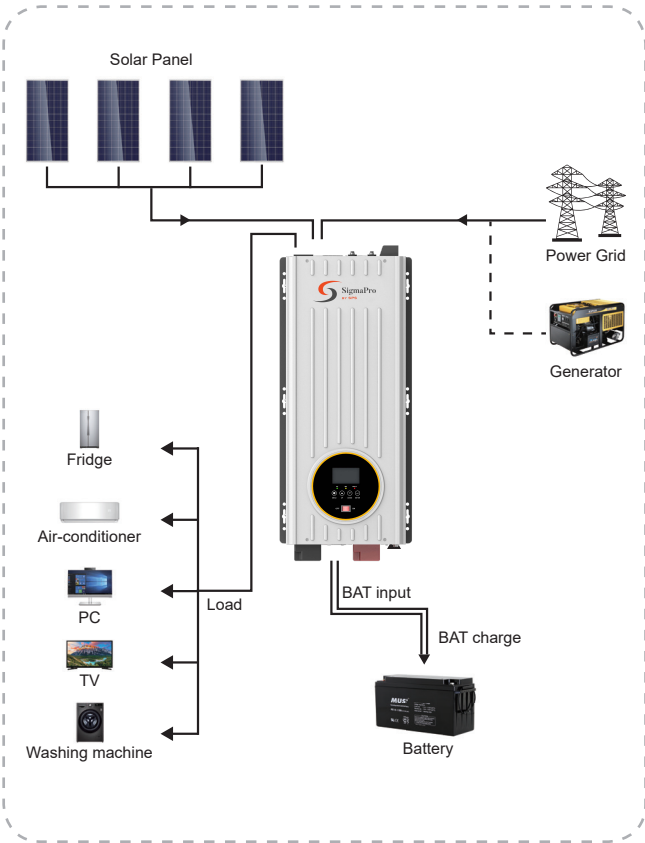
Introduction

The all NEW single phase SigmaPro series from SPS, with capacity from 1.5KW-4KW and DC 24V/48V. These versatile inverters are capable of handling multiple major appliances. The inverter auto-senses AC input, connects to 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. 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. SigmaPro - the all-in-one reliable inverter for residential and commercial uses.

Back panel printing description



Solar system connection



Specification

MODEL		SigmaPro 1524	SigmaPro 3024	SigmaPro 4048
Inverter Output	Rated power	1.5KW	3KW	4KW
	Power factor	1		
	Wave form	Pure sine wave		
	Output voltage RMS	100V \ 110V \ 120VAC±10%		
	Output frequency	50Hz or 60Hz (±0.3Hz)		
	Inverter efficiency (peak)	>85%		
	Overload	100%<Load<110% (alarm 5min then stop output and fault code 07) 110%<Load<125% (alarm 60s then stop output and fault code 07) Load > 125% (alarm 10s then stop output and fault code 07)		
	Surge rating	4500VA	9000VA	12000VA
	Capable of starting electric motor	1P	1.5P	2P
	Battery voltage	24VDC	24VDC	48VDC
Battery	Minimum start voltage	22VDC/44VDC		
	Low battery voltage cut off	20/21/22V for 24V model, 40/42/44V for 48V model (low voltage fault code04)		
	Low battery voltage alarm	Add +1V/battery: (high voltage one second one time/after 30s fault 03) (27.6-29V) + 2V for 24V model (55.2-58) + 4V for 48V model		
	High battery voltage alarm	Add +1V\battery: (high voltage one second one time\after 30s fault 03) (27.6-29V) + 2V for 24v model (55.2-58) + 4V for 48v model		
	Save mode	Load≤50±20W		
AC Input Mode	Input waveform	Pure sine wave		
	Nominal input voltage	120Vac ± 3%		
	Max input voltage	140 Vac MAX		
	Input frequency	50Hz \ 60Hz (auto sensing)		
	Efficiency (AC mode)	>95% (load, full battery)		
	Transfer time AC to DC	15ms (typical)		
Solar Charge	Maximum solar charge current	80A±4A		
Charge Mode	24V	25A		
	48V	60A		
		Min charge current 10A. Change by every 5A		
Dimensions	Dimensions (W*H*D)	422*247*197mm		597*247*197mm
	Ship Dimensions (W*H*D)	585*387*322mm		753*382*312mm
	Warranty	One year (standard), 2 years optional		