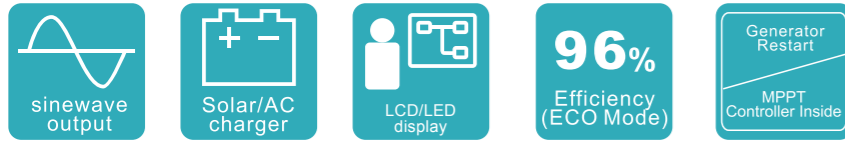


CNS113 Series

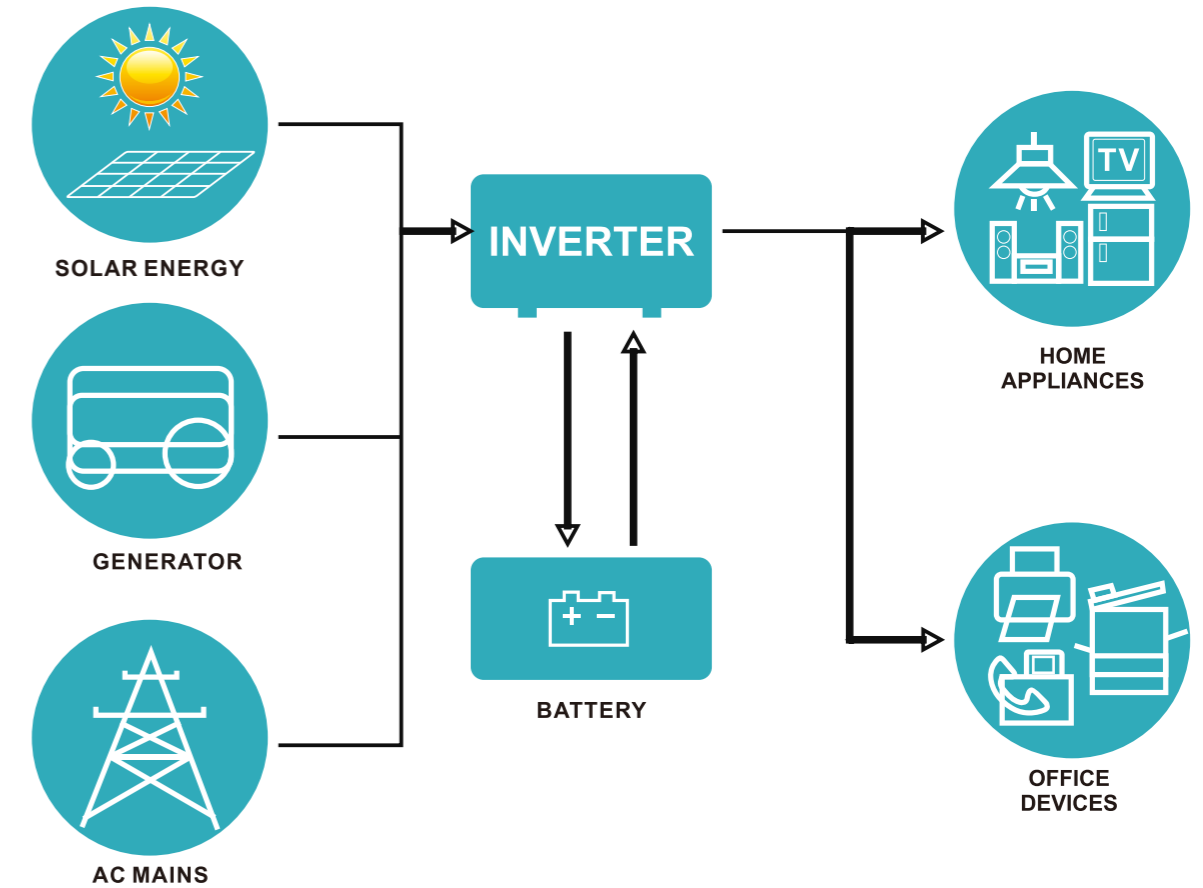
solar inverter 3–5KVA



Product description

- CNS113 Series AC/Solar charging Off grid Hybrid Inverter.
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Smart battery charger design for optimized battery performance
- Over load, over temperature, short circuit protection.

Typical Application



Parameters		Model	CNS113 3K-24	CNS331 5K-48
AC Input	Nominal Power		3KVA/2400W	5KVA/4200W
	Input Voltage Waveform		Sinusoidal (utility or generator)	
	Nominal input Voltage		230VAC	
	Low Line Disconnect		170Vac±4%(Normal) or 90Vac±4%(Wide&Generator)	175Vac±4%(Normal) or 125Vac±4%(Wide&Generator)
	Low Line Re-connect		180Vac±4%(Normal) or 100Vac±4%(Wide&Generator)	185Vac±4%(Normal) or 135Vac±4%(Wide&Generator)
	High Line Disconnect		280Vac±4%(Normal) or 280Vac±4%(Wide&Generator)	280Vac±4%(Normal) or 280Vac±4%(Wide&Generator)
	High Line Re-connect		275Vac±4%(Normal) or 275Vac±4%(Wide&Generator)	275Vac±4%(Normal) or 275Vac±4%(Wide&Generator)
	Max AC input Voltage		Max:300VAC	
	Output Short Circuit Protection		30A Circuit Breaker	40A Circuit Breaker
	Frequency		50Hz/60Hz(Auto detection)	

Technical Specifications

AC output	Output Voltage Waveform	Sine wave	
	Power Factor	0.8	0.84
	Bypass Breaker Size	30A	40A
	Voltage Regulation (Inverter Mode)	± 10% RMS	
	Nominal Output Frequency (Hz)	50Hz ± 1Hz or 60Hz ± 1Hz	
	Capable of starting electric motor	1.5HP	2.5HP
	Power Limitation		
Transfer Time	15ms (MAX)		
Solar charger	Charger mode	MPPT	
	Maximun PV Array Power	960W	2800W
	Rated Charge Current	40A	60A
	PV High Voltage disconnect	75VDC±0.6VDC	150VDC±1.2VDC
	Efficiency	≥98%	
AC charger	Nominal Charger Current	20A @170Vac~280Vac; 10A @90Vac~170Vac	25A @180Vac~280Vac; 20A @125Vac~180Vac
	Over charge Protection	30VDC±0.6VDC	60VDC±1.2VDC
Battery Voltage	Nominal DC input Voltage	24VDC	48VDC
	Low Battery Alarm	21VDC±0.6VDC	42VDC±1.2VDC
	Low DC input shut-down	20VDC±0.6VDC	40VDC±1.2VDC
	High DC inputAlarm & Fault	29VDC±0.6VDC	58VDC±1.2VDC

Technical Specifications

Efficiency	Efficiency(Battery Mode)	>90%	
	Efficiency(Line Mode)	>98%	
System Parameter	Over-Load Protection	110%<load<150%,beeps 0.5s every 1s,and Fault after 10s offthe output, load≥150%,beeps 0.5s every 1s,and Fault after 5s	
	Output Short Circuit Protection	Current limit (Fault after 4 cycles max)	
	Surge Rating	1:2(VA)	
	Protections	Low battery, over charging, over load, over temp	
	Indicators	LCD Display	
General Specifications	Operating Temperature Range	0°C to 40°C	
	Storage Temperature	-15°C~60°C	
	Operation humidity	5% to 95%(non-condensing)	
	cooling	Forced air,variable speed fan	
	Dimension(L*W*H)	326*268*88.8mm	456*356.8*118mm
	Net Weight(kg)	5.6kg	11.1kg

◆ **Product specifications are subject to change without further notice**