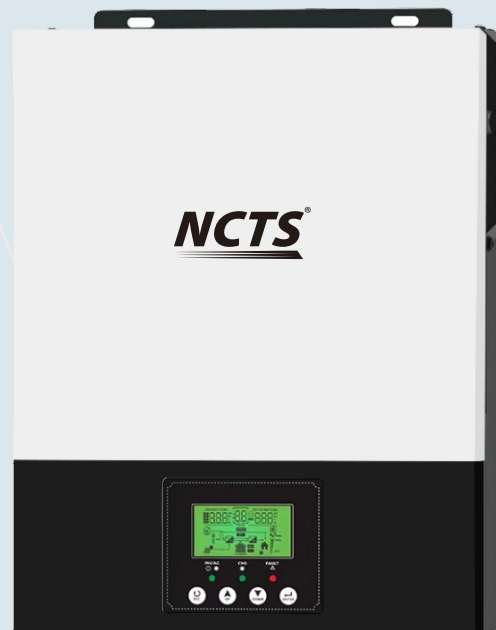


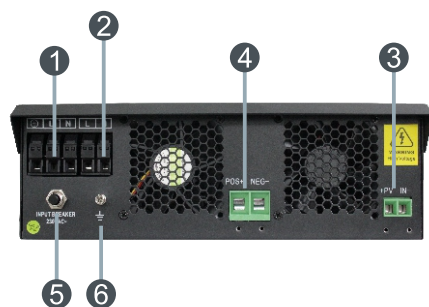
NCTS-VEGA series

Off Grid Inverter

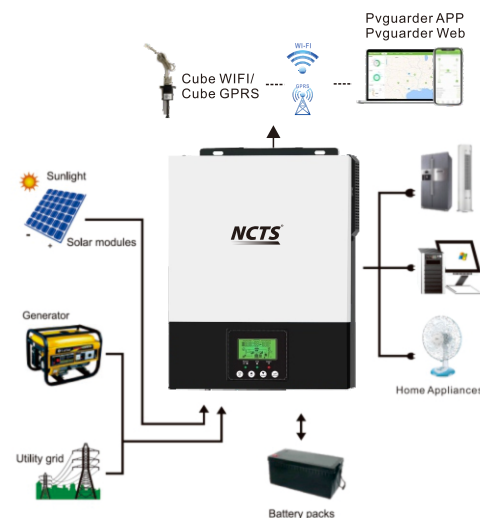


Product Features

- Pure Sine wave solar inverter
- Output power factor 1
- High PV input voltage range 120-450V
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit for harsh environment
- Support working without battery



System connection



Overview

- 1. AC input
- 2. AC output
- 3. PV input
- 4. Battery input
- 5. Circuit breaker
- 6. GND

Technical Specification

Line Mode Specifications	NCTS-VEGA 3K
Rated Output Power	3000VA / 2400W
Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac ± 7V (UPS)
	90Vac ±7V (Appliances)
Low Loss Return Voltage	180Vac ±7V(UPS)
	100Vac ±7V(Appliances)
High Loss Voltage	280Vac ±7V
High Loss Return Voltage	270Vac ±7V
Max AC Input Voltage	300Vac
Nominal Input Frequency	50Hz/ 60Hz (Auto detection)
Low Loss Frequency	40 ±1Hz
Low Loss Return Frequency	42 ±1Hz
High Loss Frequency	65 ±1Hz
High Loss Return Frequency	63 ±1Hz
Output Short Circuit Protection	Circuit Breaker
Efficiency (Line Mode)	>95%(Rated R load, battery full charged)
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)
Inverter Mode Specifications	
Output Voltage Waveform	Pure Sine wave
Output Voltage Regulation	230Vac ± 5%
Output Frequency	50Hz
Peak Efficiency	91%
Overload Protection	5s@=150% load; 10s@110% -150% load
Surge Capacity	2* rated power for 5 seconds
Nominal DC Input Voltage	24Vdc
Cold Start Voltage	23.0Vdc
Low DC Warning Voltage	
@load <50%	22.0Vdc
@load >50%	21.0Vdc
Low DC Warning Return Voltage	
@load <50%	22.5Vdc
@load >50%	22.0Vdc
Low DC Cut off Voltage	
@load <50%	20.5Vdc
@load >50%	20.0Vdc
High DC Recovery Voltage Frequency	32Vdc
High DC Cut off Voltage	33Vdc
No Load Power Consumption	<30W
Charging Mode Specifications	
Charging Algorithm	3-Step
AC Charging Current(Max)	60Amp
Bulk Charging Voltage Flooded Battery	29.2
	28.2
Floating Charging Voltage AGM/Gel Battery	27Vdc
MPPT Solar Charging Mode	
Max PV Array Power	3000W
Nominal PV Voltage	240Vdc
PV Array MPPT Voltage Range	90 -430Vdc
Max PV Array Open Circuit Voltage	450Vdc
Max Charging Current (AC charger plus solar charger)	80Amp
Maxmium Solar Charging Current	80Amp
Safety Certification	CE
Operating Temperature Range	-10°C~50°C
Storage Temperature	-15°C~60°C
Humidity	5% to 95%Relative Humidity(Non-condensing)
Dimension (D*W*H),mm	348X270X95
Net Weight, kg	5