

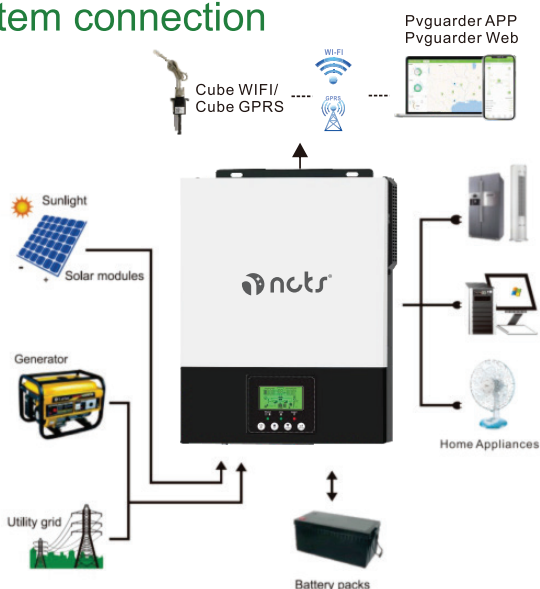
NCTS-VEGA 1.5K Off-Grid Inverters

NCTS-VEGA 1.5K

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



NCTS-VEGA 1.5K

Off-Grid Inverters

Technical Specifications

Model: NCTS-VEGA 1.5K

Line Mode Specifications		NCTS-VEGA 1.5K	
Rated Output Power	1500VA / 1500W	Inverter Mode Specifications	
Input Voltage Waveform	Sinusoidal (utility or generator)	Output Voltage Waveform	Pure Sine wave
Nominal Input Voltage	230Vac	Output Voltage Regulation	230Vac ± 5%
Low Loss Voltage	170Vac ± 7V (UPS)	Outp0ut Frequency	50Hz
	90Vac ±7V (Appliances)	Peak Efficiency	91%
Low Loss Return Voltage	180Vac ±7V(UPS)	Overload Protection	5s@=150% load; 10s@110% -150% I
	100Vac ±7V(Appliances)	Surge Capacity	2* rated power for 5 seconds
High Loss Voltage	280Vac ±7V	Nominal DC Input Voltage	12Vdc
High Loss Return Voltage	270Vac ±7V	Cold Start Voltage	11.5Vdc
Max AC Input Voltage	300Vac	Low DC Warning Voltage	
Nominal Input Frequency	50Hz/ 60Hz (Auto detection)	@load <50%	11.0Vdc
Low Loss Frequency	40 ±1Hz	@load >50%	10.5Vdc
Low Loss Return Frequency	42 ±1Hz	Low DC Warning Return Voltage	
High Loss Frequency	65 ±1Hz	@load <50%	11.5Vdc
High Loss Return Frequency	63 ±1Hz	@load >50%	11.0Vdc
Output Short Circuit Protection	Circuit Breaker	Low DC Cut off Voltage	
Efficiency (Line Mode)	>95%(Rated R load, battery full charged)	@load <50%	10.2Vdc
		@load >50%	9.6Vdc
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	High DC Recovery Voltage Frequency	14.0Vdc
		High DC Cut off Voltage	16.0Vdc
Charging Mode Specifications		No Load Power Consumption	<25W
Charging Algorithm	3-Step	MPPT Solar Charging Mode	
AC Charging Current(Max)	60Amp	Max PV Array Power	2000W
Bulk Charging Voltage Flooded Battery	14.6	Nominal PV Voltage	240Vdc
	14.1	PV Array MPPT Voltage Range	90 -430Vdc
Floating Charging Voltage	13.5Vdc	Max PV Array Open Circuit Voltage	450Vdc
AGM/Gel Battery		Max Charging Current (AC charger plus solar charger)	80Amp
		Maxmiun 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	4

Overview

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

