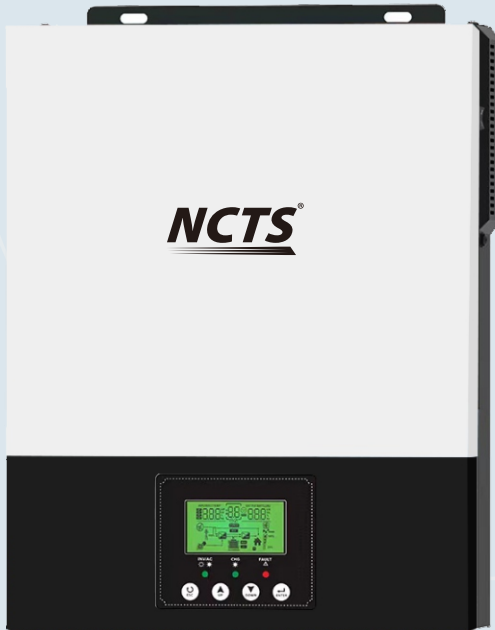


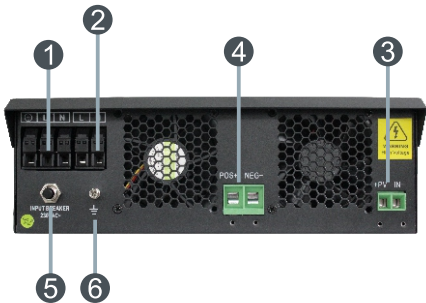
NCTS-VEGA series

Off Grid Inverter

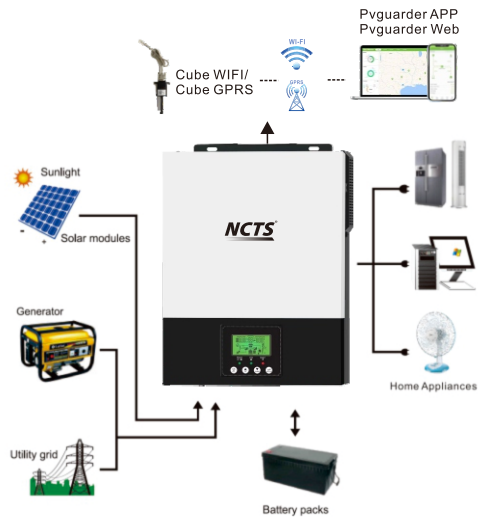


Product Features

- 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 2.4K                                |
|------------------------------------------------------|-----------------------------------------------|
| 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%                                   |
| Outp0ut 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                                         |
| 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                                       | 5                                             |