

# NTS-450-248UN

## Pure Sine Wave Inverters



- Uses true sine wave output with THD <3%.
- Supports 40–66 VDC wide voltage input and is suitable for 48 V storage battery input in solar systems.
- Up to 93% full-load efficiency.
- Supports various protections, including low voltage alert and low voltage shutdown of storage battery, output short circuit protection, overload protection, overvoltage protection, over temperature protection and polarity protection.
- Adjustable output voltage.
- Adjustable output frequency to 50 Hz and 60 Hz.

### Scene

The inverter works with a variety of products and is suitable for use in environments with temperatures ranging from  $-25^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$  to  $+149^{\circ}\text{F}$ ) and with humidity less than 90%.

### Technical Specification

#### Electrical Specification

AC Output Rated Power	450 W
AC Output Waveform	Pure sine wave
AC Output Frequency	50/60 Hz, can be adjusted by configuring button
AC Output Alternating Voltage	200/220/230/240 V, can be adjusted by configuring button
DC Input Direct Voltage	24 V
DC Input Direct Current	25 A
DC Input Frequency	93%
DC Input Battery Type	Lead-acid Battery, Lithium Battery
EMC	CLASS A

#### Safety Performance

Battery Low Voltage Alarm	$44 \pm 1$ VDC
Battery Low Voltage Shutdown	$40 \pm 1$ VDC
Battery High Voltage Alarm	$62 \pm 1$ VDC
Battery High Voltage Shutdown	$66 \pm 1$ VDC
Battery Reverse Polarity Protection	Yes
Overtemperature Protection	Yes
Output Short Circuit Protection	Yes
Output Overvoltage Protection	Yes

### Others

Product Dimensions	210 mm × 130 mm × 55 mm (8.27" × 5.12" × 2.17") (L × W × H)
Net Weight	1.3 kg (2.87 lb)
Packaging Dimensions	280 mm × 176 mm × 110 mm (11.02" × 6.93" × 4.33") (L × W × H)
Operating Temperature	$-25^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ ( $-13^{\circ}\text{F}$ to $+149^{\circ}\text{F}$ )
Operating Humidity	20%–90% (RH) (non-condensing)
Storage Temperature	$-30^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ( $-22^{\circ}\text{F}$ to $+158^{\circ}\text{F}$ )
Storage Humidity	10%–95% (RH) (non-condensing)
Accessory	1 × user's manual
Certifications	CE

### Dimensions (mm[inch])

