

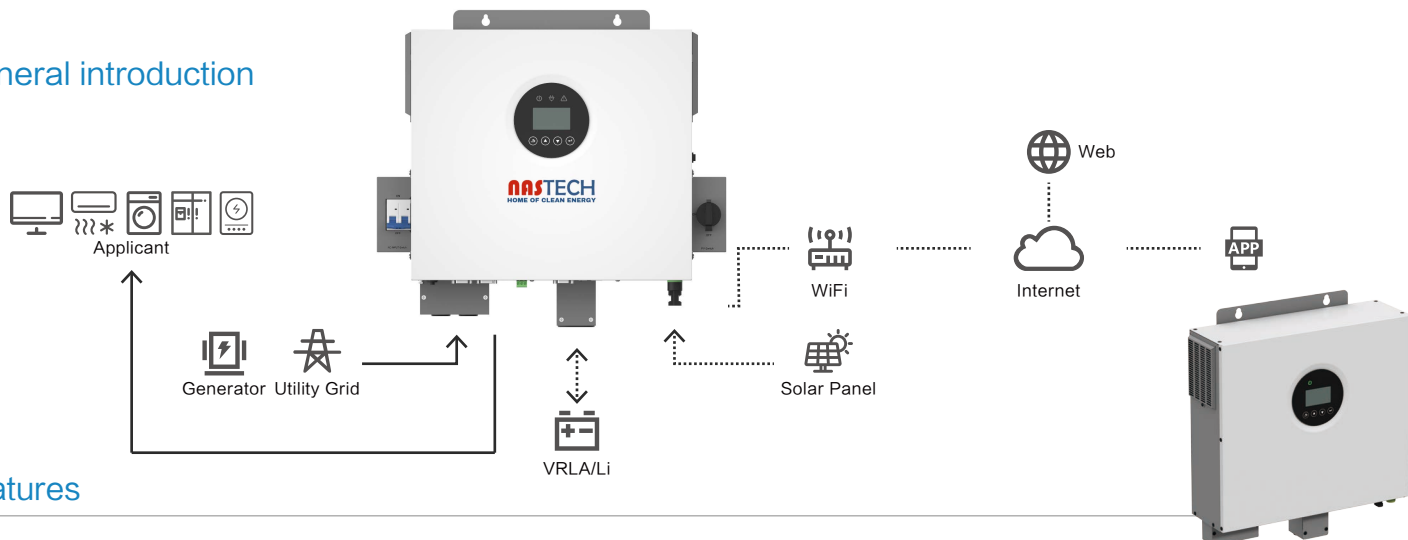
# NF Series

## Off-Grid Solar Inverter

3.6kW/6kW



### General introduction



### Features

#### ✓ Safety

- 6kV lightning protection
- DC – DC high frequency isolating converter (Battery)
- Waterproof PV terminal

#### 🌿 Green

- Up to 93.5% efficiency
- Output power factor is 1.0
- Intelligent cooling fan control
- Low THDv

#### 🔗 Reliable

- Widely input voltage of AC and PV
- Pure sine wave output
- Compatible with generator
- Built-in Intelligent temperature sensors
- Dust cleaning alarms and dust-proof components

#### ⚡ Fast charging

- PV and AC charging current is up to 120A
- Intelligent charging (Multiple charging modes)

#### 👤 User-friendly

- Dot-matrix screen and physical button
- Built-in WiFi module (Optional)
- APP support (Optional)
- Built-in PV terminal for easy installation

#### 🏠 Applications

- Support home appliances/office equipment/lighting equipment etc.
- Support lead-acid and lithium-ion battery
- Max. 6 units in parallel
- RS232/USB/Dry Contact

## Technical Specifications

Model	NF-3.6KW-1P24V	NF-3.6KW-1P48V	NF-6KW-1P48V
<b>Input(AC)</b>			
Nominal Voltage	220/230/240Vac		
Selectable Voltage Range	170~280Vac (For Personal Computers) 90~280Vac (For Home Appliances)		
Frequency	50/60Hz (Auto Detection)		
Power Factor	0.98		
AC Switch	Optional		
Generator input	Support		
<b>PV String Input(DC)</b>			
Max PV Array Open Circuit Voltage Range	500Vdc		
Start-up Voltage	120Vdc		
Initial Feeding Voltage	150Vdc		
MPPT Voltage Range	120Vdc ~ 450Vdc		
Number of MPPT Trackers	1		
Maximum PV input Power	4000W	4000W	6700W
DC Switch	Optional		
<b>AC Output</b>			
Nominal output Power	3600W/3600VA	3600W/3600VA	6000W/6000VA
Nominal Voltage (Batt. Mode)	220/230 (Default)/240Vac ± 5%, User Settable		
Surge Power	7200VA	7200VA	12000VA
Transfer Time	15ms (For Personal Computers); 20ms (For Home Appliances)		
Waveform	Pure sine wave		
Output THDv (@Linear Load)	<3%		
Battery Mode Efficiency (Peak)	93.5%		
<b>Battery &amp; Charge</b>			
Nominal Voltage (LiFePO <sub>4</sub> )	25.6Vdc	51.2Vdc	51.2Vdc
Nominal Voltage (Lead Acid)	24V	48V	48V
Max. AC charge Current	120A	60A	120A
Max. Solar Charge Current	120A	60A	120A
Max. Charge Current (Solar + AC charge current)	120A (User Selectable)	60A (User Selectable)	120A (User Selectable)
<b>Interface &amp; Mechanical</b>			
Display	LCD & LED		
Parallel Function	Optional, max 6 units		
Communication Interface	RS232/USB/Dry Contact; Optional: RS485/CAN/WIFI		
Dimension (D*W*H/mm)	134.0*427.5*460.8		
Net Weight (kg)	11.5	11.6	13.2
<b>Protection</b>			
Output Over-current Protection	Yes		
Function Protection	Short Circuit; Over voltage; Under voltage;		
Insulation Detection	Yes		
AC/DC Surge Protection	Yes		
<b>General Specifications</b>			
Operating Temperature	-10°C~50°C		
Storage Temperature	-15°C~60°C		
Relative Humidity	5%~95%, non-condensing		
Altitude	<3000m		
Protection Class	IP21		
<b>Standards</b>			
Safety	IEC/EN62109-1&2		
EMC	EN61000-6-1&2&3&4		

- Specifications are subject to change without prior notice
- Data above are typical values for reference only, not as a basis for engineering design
- Output load will not be derated if the working altitude is under 2000m

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