



N1F-A Series Off-grid Inverter

N1F-A6.2P

[PV 60-500Vdc]

6.2KW 220/230VAC±5% Output



Pure sine wave

Power factor 1.0

Capable of working without the battery

Enables remote intelligent monitoring by SmartESS APP

Parallel operation up to 12 units in 1phase or 3phase

EQ function to optimize battery performance and extend the lifecycle



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. RS232 communication port
12. Parallel communication port (only for parallel model)
13. RS485 communication port
14. Grounding
15. WiFi module avoidance hole (Only use WiFi module models to remove)
16. RS485 communication line outlet
17. Battery positive outlet hole
18. Battery negative outlet hole

| MODEL | N1F-A6.2P |
|---------------------------------------|--|
| Capacity | 6.2KVA/6.2KW |
| Parallel Capability | YES,12 Units |
| INPUT | |
| Nominal Voltage | 230VAC |
| Acceptable Voltage Range | 170-280VAC(For personal Computer); 90-280vac(For Home Appliances) |
| Frequency | 50/60 Hz(Auto sensing) |
| OUTPUT | |
| Nominal Voltage | 220/230VAC±5% |
| Surge Power | 12400VA |
| Frequency | 50/60Hz |
| Waveform | Pure Sine wave |
| Transfer Time | 10ms(For personal Computer);20ms(For Home Appliances) |
| Peak Efficiency | 94% |
| Overload Protection | 5s@>= 150%load;10s@110%~ 150%load |
| Crest Factor | 3:1 |
| Admissible Power Factor | 0.6~ 1(inductive or capacitive) |
| BATTERY | |
| Battery Voltage | 48VDC |
| Floating Charge Voltage | 54VDC |
| OverCharge Protection | 63VDC |
| Charging Method | CC/CV |
| Solar Charger & AC Charger | |
| Solar Charger Type | MPPT |
| Max.PV Array Power | 6500W |
| Max.PV Array Open Circuit Voltage | 500VDC |
| PV Array MPPT Voltage Range | 60VDC~450VDC |
| Max.Solar Input Current | 27A |
| Max.Solar Charge Current | 120A |
| Max.AC Charge Current | 80A |
| Max.Charge Current | 120A |
| PHYSICAL | |
| Dimensions , DxWxH | 450x300x130mm |
| Package Dimensions , DxWxH | 540x390x210mm |
| Net Weight | 9.6KG |
| Communication Interface | RS232/RS485/Dry-contact |
| ENVIRONMENT | |
| Operating Temperature Range | - 10℃~55℃ |
| Storage Temperature | - 15℃~60℃ |
| Humidity | 5%to 95%Relative Humidity(Non-condensing) |