



## N1F-A Series Off-grid Inverter

### N1F -A5.5P

[PV 120-500Vdc]



5.5KW 220V/230Vac Output

Pure sine wave

Power factor 1.0

Capable of working without 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. AC input
2. AC output
3. PV input
4. Battery input
5. Circuit breaker
6. Grounding
7. RS485 communication port
8. Dry contact
9. Power on/off switch
10. RS232 communication port



MODEL	N1F-A5.5P
Capacity	5.5KVA/5.5KW
Parallel Capability	YES, 12 Units
<b>INPUT</b>	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
<b>OUTPUT</b>	
Nominal Voltage	220/230VAC±5%
Surge Power	11000VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	96%
Peak Efficiency(Battery to INV)	93%
Overload Protection	5s@>= 150%load;10s@110%~ 150%load
Crest Factor	3:1
Admissible Power Factor	0.6~ 1(inductive or capacitive)
<b>BATTERY</b>	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Max.PV Array Powe	5500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC~450VDC
Max.Solar Input Current	18A
Max.Solar Charge Current	100A
Max.AC Charge Current	60A
Max.Charge Current	100A
<b>PHYSICAL</b>	
Dimensions , DxWxH	448x295x120mm
Package Dimensions , DxWxH	560x375x190mm
Net Weight	10KG
Communication Interface	RS485/RS232/Dry-contact
<b>ENVIRONMENT</b>	
Operating Temperature Range	- 10°C to 50°C
Storage Temperature	- 15°C~50°C
Humidity	5%to 95%Relative Humidity(Non-condensing)