



## N1F-A Series Off-grid Inverter

### N1F -A3US Split Phase Inverter

[PV 120-500Vdc]

3KW 110V/120Vac Output



Pure sine wave

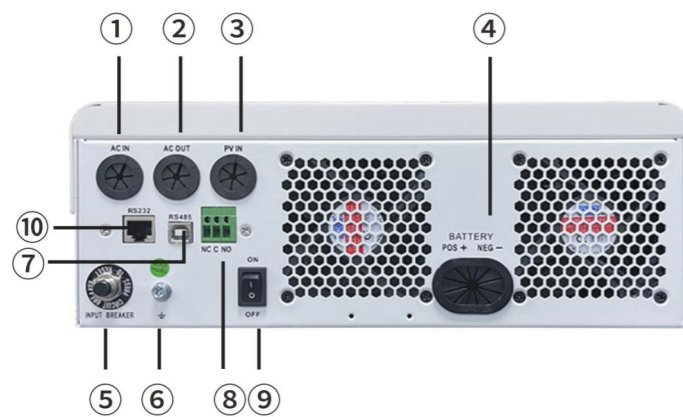
Power factor 1.0

Capable of working without the battery

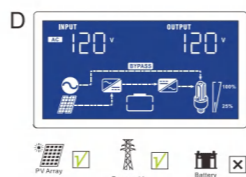
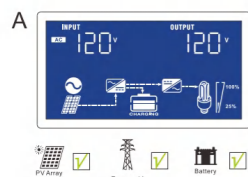
Enables remote intelligent monitoring by SmartESS APP

Parallel operation with up to 12 units in 1phase/ 3phase/split phase

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 (Optional)
9. Power on/off switch
10. RS232 communication port



MODEL	N1F-A3US
Capacity	3KVA/3KW
Parallel Capability	YES, 12 Units
Split Phase Operation	YES, (1 set : L1 N -110V; Parallel 2 sets : L1 L2 N -110V/220V)
INPUT	
Nominal Voltage	110/120VAC
Acceptable Voltage Range	95- 140VAC(For personal Computer);65- 140VAC(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	110/120VAC±5%
Surge Power	6000VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	97%
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)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Max.PV Array Powe	5000W
Solar Charger Type	MPPT
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC~450VDC
Max.Solar Input Current	18A
Max.Solar Charge Current	80A
Max.AC Charge Current	60A
Max.Charge Current	80A
PHYSICAL	
Dimensions , DxWxH	448x315x122mm
Package Dimensions , DxWxH	540x390x217mm
Net Weight	10KG
Communication Interface	RS485/RS232/Dry-contact
ENVIRONMENT	
Operating Temperature Range	- 10℃ to 50℃
Storage Temperature	- 15℃~50℃
Humidity	5%to 95%Relative Humidity(Non-condensing)