



N1F-A Series Off-grid Inverter

N1F-A3.5/24E N1F-A6.2E

[PV 60-500Vdc]

3.5KW/6.2KW 220V/230Vac Output



Pure sine wave



Power factor 1.0



Capable of working without battery



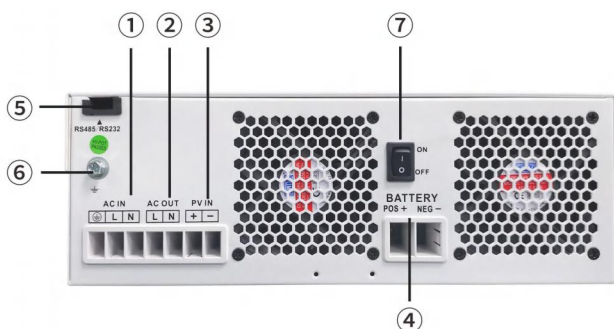
Enables remote intelligent monitoring by SmartESS APP



Lithium battery activation function, which can be triggered by mains or PV

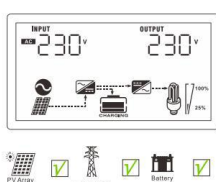


EQ function to optimize battery performance and extend the lifecycle

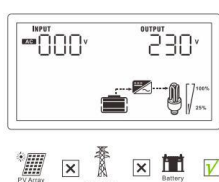


1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

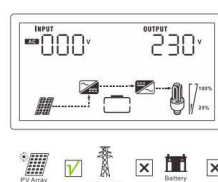
A



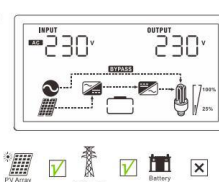
B



C



D



Web

www.amensolar.com

MODEL	N1F-A3.5/24E		N1F-A6.2E	
Capacity	3.5KVA/3.5KW		6.2KVA/6.2KW	
Parallel Capability	NO		NO	
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	7000VA	12400VA		
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)			
BATTERY				
Battery Voltage	24VDC	48VDC		
Floating Charge Voltage	27VDC	54VDC		
OverCharge Protection	33VDC	63VDC		
Charging Method	CC/CV			
Lithium Battery Activation	YES			
Lithim battery Communication	YES(RS485)			
SOLAR CHARGER &AC CHARGER				
Solar Charger Type	MPPT			
Max.PV Array Power	4000W	6500W		
Max.PV Array Open Circuit Voltage	500VDC			
PV Array MPPT Voltage Range	60VDC~500VDC			
Max.Solar Input Current	15A	27A		
Max.Solar Charge Current	100A	120A		
Max.AC Charge Current	80A	80A		
Max.Charge Current(PV+AC)	100A	120A		
PHYSICAL				
Dimensions , DxWxH	358*295* 100mm	438*295* 105mm		
Package Dimensions , DxWxH	465*380* 175mm	560*375* 185mm		
Net Weight	7KG	9KG		
Communication Interface	RS232+RS485			
ENVIRONMENT				
Operating Temperature Range	- 10℃ to 50℃			
Storage Temperature	- 15℃~50℃			
Humidity	5%to 95%Relative Humidity(Non-condensing)			