



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



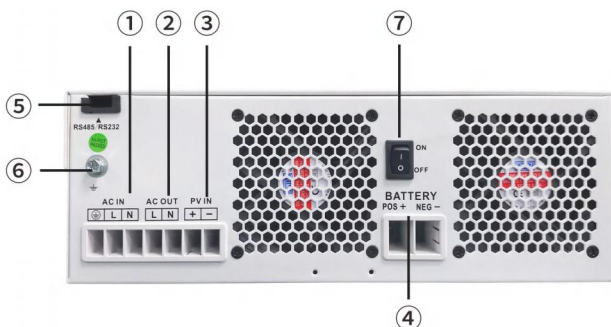
Enables remote intelligent monitoring by SOLARMAN APP



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

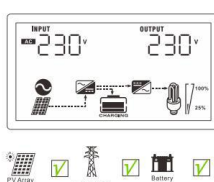


EQ function to optimize battery performance and extend the lifecycle

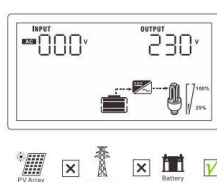


1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

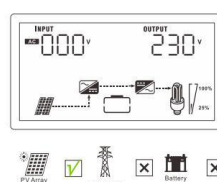
A



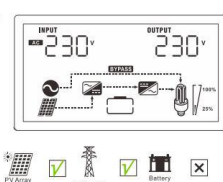
B



C



D



Web

www.amensolaress.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 Powe	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)	