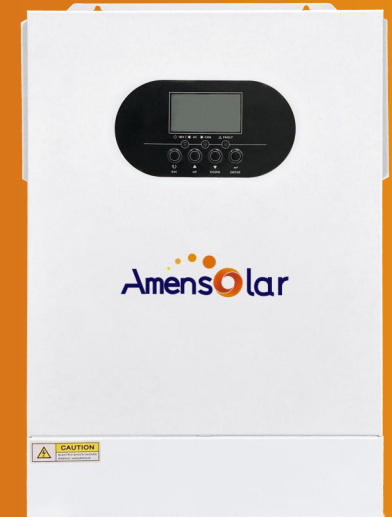


Hybrid Off-grid inverter

NIF-A3.5/24E NIF-A5.5E NIF-A6.2E
[PV 60-500Vdc]



3.5KW/ 5.5KW/6.2KW 220V/230Vac Output



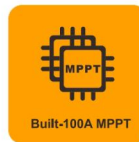
Pure sine wave



PF=1.0



WiFi



Built-100A MPPT



Generator Connection



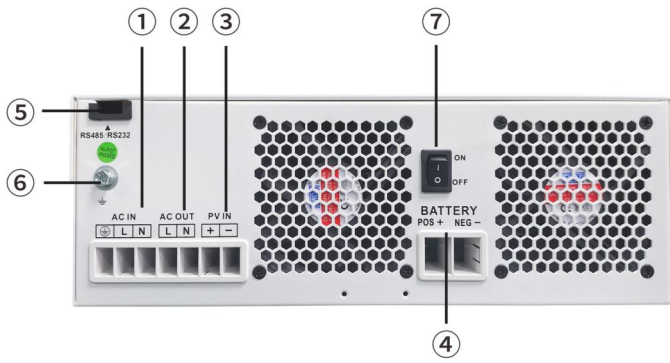
No Battery Mode



RS232 RS485

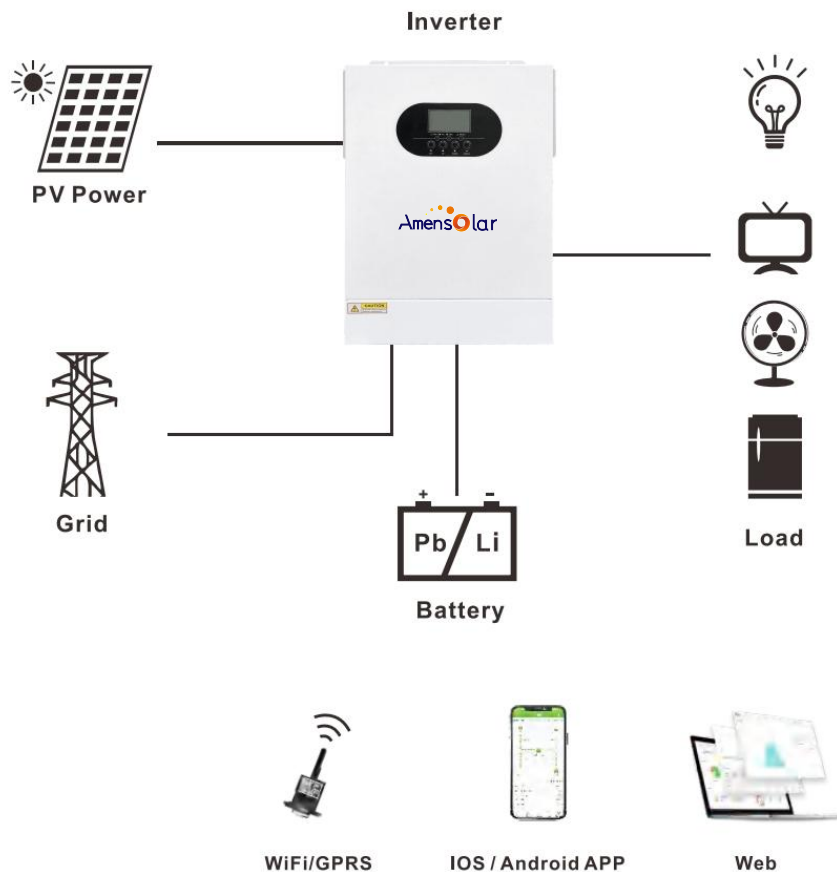
- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT100A/120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle
- Compatible work with lifepo4 battery via RS485
- Lithium battery activation function, which can be triggered by mains or PV

Bottom view

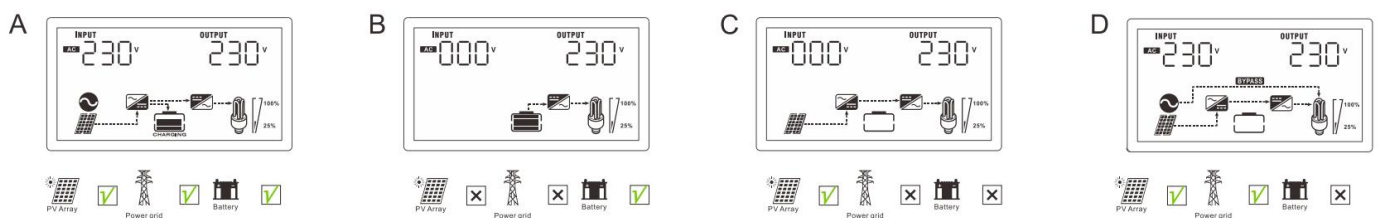


1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

System Diagram



Working Mode



MODEL	N1F-A3.5/24E	N1F-A5.5E	N1F-A6.2E
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW	6.2KVA/6.2KW
Parallel Capability	NO	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	11000VA	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 Facto	0.6~1(inductive or capacitive)		
BATTERY			
Battery Voltage	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	63VDC	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	5500W	6500W
Max.PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	60VDC~500VDC		
Max.Solar Input Current	15A	18A	27A
Max.Solar Charge Current	100A	100A	120A
Max.AC Charge Current	80A	80A	80A
Max.Charge Current(PV+AC)	100A	100A	120A
PHYSICAL			
Dimensions,DxWxH(mm)	358*295*100	438*295*105	
Package Dimensions,DxWxH(mm)	465*380*175	560*375*185	
Net Weight(Kg)	7	9	9
Communication Interface	RS232+RS485		
ENVIRONMENT			
Operating Temperature Range	-10°C to 50°C		
Storage Temperature	-15°C~50°C		
Humidity	5%to 95%Relative Humidity(Non-condensing)		