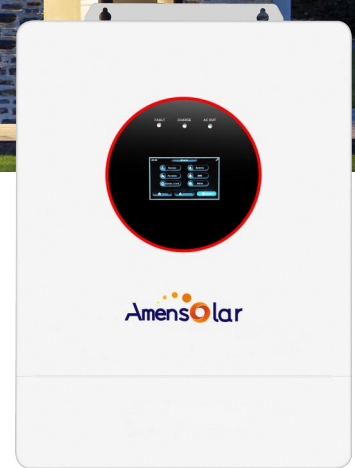




N1F-A Series off-grid Inverter

N1F -A12US Split Phase Inverter [PV 90-500Vdc]

12KW 120(L1/N,L2/N)/240Vac(L1/L2)



Dual-channel MPPT



Max. efficiency >95%



OLED light touch screen



Flexible monitor mode



Extreme security



Accurate touch and quick response



Web

www.amensolar.com

Model	N1F-A12US
Mains mode	
Nominal input voltage	120(L1/N,L2/N)/240Vac(L1/L2)
Parallel Capability	YES,6 Units
Input phase voltage range	(85Vac~140Vac)±2%
Frequency	50Hz/60Hz(Auto detection)
Frequency range	47±0.3Hz~55±0.3Hz(50Hz);57±0.3Hz~65±0.3Hz(60Hz);
Max.efficiency	>95%
Conversion time(bypass and inverter)	10ms(typical)
Max.bypass phase overload current	2P,63A/63A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Nominal output power(VA)/(W)	Split phase:12000VA/12000W Single phase:7200VA/7200W(limited by the wiring terminals)
Power factor	1
Nominal output voltage(Vac)	120Vac(L1/N,L2/N)/240Vac(L1/L2)
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Max.efficiency	>91%
Overload protection	(102%<load <110%)±5%:report error and turn off the output after 5 minutes; (110%<load<125%)±5%:report error and turn off the output after 10 seconds; Load>125%±5%:report error and turn off the output after 5 seconds;
Peak power	Split phase:18000VA Single phase:18000VA
Loaded motor capability	6HP
Nominal battery input voltage	48V(Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc(Undervoltage alarm/shutdown voltage/overvoltage alarm/ overvoltage recovery.settable on LCD screen)
Save power mode	Load≤25W enter power-saving mode
Mains charge	
Battery type	Lead acid or lithium battery
Max.charge current(configurable)	160A
Charge voltage range	40-60Vdc
Solar charge	
Max.PV open circuit voltage	500Vdc
PV operate voltage range	90Vdc~500Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-60Vdc
Max.PV input power/current	6000W×2/22A×2
Charge current range(configurable)	220A
Max.hybrid charge current(PV+AC)	
Max.hybrid charge current(configurable)	0-220A
Certification	
Safety certification	UL STD.1741
EMC certification level	FCC part15,CLASSB
Operate temperature range	-10℃ to 55℃(>45℃ derating)
Storage temperature range	-25℃~60℃
Humidity range	5% to 95%(Conformal coating protection)
Noise	≤60dB
Cooling	Forced air cooling,variable speed of fan
Communicate	USB/RS485(/WiFi/GPRS)/Dry node control
Dimensions(L*W*D)	620*450*132
Weight(kg)	23.8