



N1F-A Series off-grid Inverter

N1F -A6.5US Single Phase Inverter

[PV 80-300Vdc]

6.5KW 120Vac



Dual-channel MPPT



Max. efficiency >95%



OLED light touch screen



Flexible monitor mode



Extreme security



Parallel operation
with up to 6 units



Web

www.amensolaress.com

Type	N1F-A6.5US
Parallel mode (function reserved)	
Allow quantity	1-6
Mains mode	
Nominal input voltage	120Vac±5%
Input voltage range	(90Vac~140Vac)±2%
Frequency	50Hz/60Hz(Auto detect)
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 value)
Max.bypass overload current	63A
Inverter mode	
Output voltage waveform	Pure sine wave
Nominal output power(VA/(W)	6500VA/6500W
Power factor	1
Nominal output voltage (Vac)	120Vac
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Max . efficiency	>91%
Overload protection	(102%<load<125%)±10%:report error,turn of the output after 5 minutes; (125%<load<150%)±10%:report error,turnof the output after 10 seconds; load>150%±10%:report error,turn of the output after 5 seconds;
Peak power	12000VA
Load motor capability	5HP
Nominal battery input voltage	48V(Min start voltage 44V
Battery vltage range	40.0Vdc-60Vde±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery-LCD screen can be set)
Save powe mode	Loads25W
Mains charge	
Battery type	Lead-acid or lithium batteries
Max . charge current (configurable)	120A
Charge voltage range	40-60Vde
Solar charge	
Max.PV open circuit voltage	300Vde
PV operate voltage range	80-300Vde
MPPT voltage range	90-260Vde
Battery voltage range	40-60Vdc
Max.PV input power/current	4500W×2/22A×2
Charge curent range (configurable)	0-150A
Max.hybrid charge curent(PV+AC)	
Max hybrid charge current (configurable)	0-150A
Certification	
Safety certification	CE(JEC62109-1,2)
EMC certification level	EN6100,C2
Operate temperaturerange	-15℃ to 55℃
Storage temperature range	-25℃~60℃
Humidity range	5%to 95%(Three ant-paint protection)
Noise	≤60dB
Cooling	Forced air cooling,adjustable wind speed
communicate	USB/S485(WiFi/GPS/Dry node control
Dimensions (L*W*D)	550mm*365mm*130mm
Weight (kg)	20