

OFF GRID HYBRID INVERTER

NKS-L Series 3.5/5.5/6.2KW PV 60-500Vdc



RS232/RS485



100/120A MPPT



High Efficiency



WiFi Optional



Pure sine wave



PV 60-500Vdc



Lithium Battery
Activation



Anti-shock
Design



Product Features

- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT 100A/120A
- Lithium Battery Activation
- Compatible work with LifePO4 Battery via RS485
- 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

Technical Data

MODEL	NKS3500-24L	NKS5500-48L	NKS6200-48L
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@>=140% load; 10s@100%~140% load		
Crest Factor	3:1		
Admissible Power Factor	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 Power	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,D x W x H(mm)	358*295*100	438*295*105	
Package Dimensions,D x W x H(mm)	465*380*175	560*375*185	
Net Weight(Kg)	6	8.2	8.7
Communication Interface	RS232+RS485		
ENVIRONMENT			
Operating Temperature Range	(-10℃ ~ 50℃)		
Storage Temperature	(-15℃ ~ 50℃)		
Humidity	5% to 95% Relative Humidity (Non-condensing)		