

Single Phase Off-grid Inverter



NKI-PV1000-12



Built-in 60A
Solar Charger



MPPT Range
18-125V



Pure Sine Wave

LCD

LCD Display

BMS

Support Lithium/
Lead-acid Battery



Lithium Battery
Activation

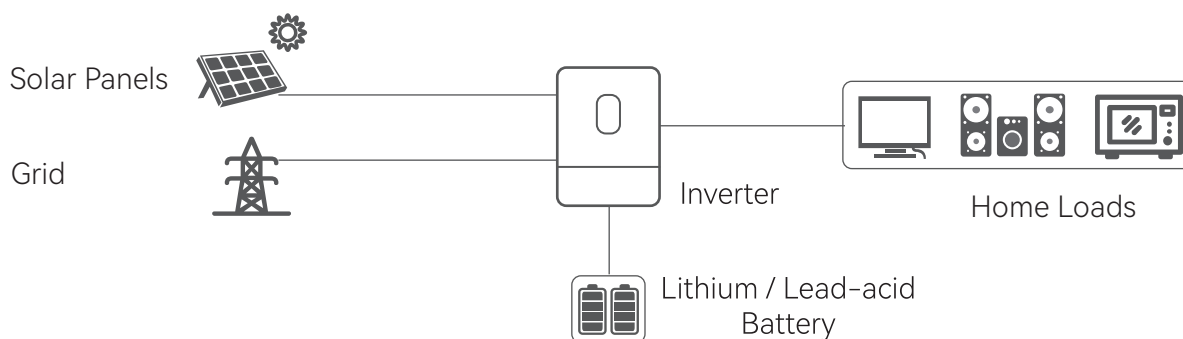
PF

Power Factor 1.0



Detachable
Dust Cover

System Diagram



Specifications

Model	NKI-PV1000-12
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	1.2
Surge Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	14A / 1000W
MPPT Range@Operating Voltage (VDC)	18~100
Max PV Open Circuit Voltage (VDC)	125
Max PV Charge Current (A)	60
Max AC Charge Current (A)	60
Max. Charge Current (PV + AC) (A)	120
Battery	
Normal Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232
Monitoring	NA
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	3.2
Dimensions (W*H*D)	347*236*91mm
Max. Operating Altitude	4000m (Derating above 1000m)
Activation	
AC Activation	YES
PV Activation	YES