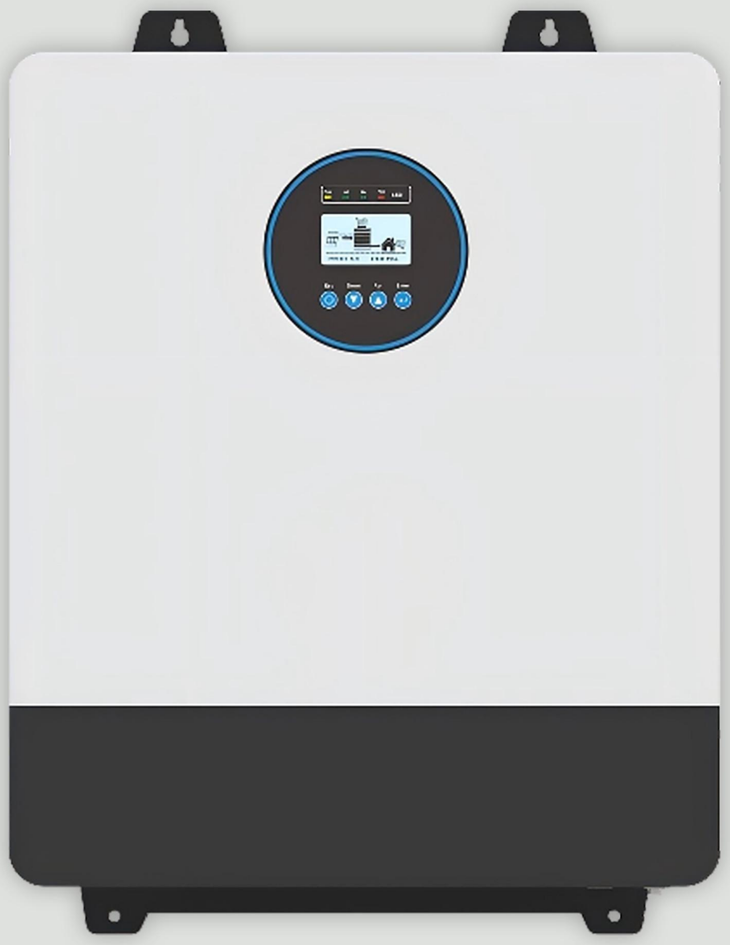
NKF Bidirectional Inverter Controller

3KW/5KW/6.4KW/8KW/10KW



MAIN FEATURES

- Dual MCU intelligent control technology, excellent performance
- Input single-phase/split phase options, flexible to cope with various power environments
- The output voltage and frequency can be set, which is convenient and practical
- The unmanned function can be set, and the application scenarios are diversified
- Intelligent air-cooled heat dissipation, efficient and energy-saving
- Comprehensive protection and alarm functions, safe and reliable

Product Specifications

Model		NKF-302024	NKF-302048	NKF-502048	NKF-642048	NKF-802048	NKF-103048
Inverter	Rated Power	3KW		5KW	6.4KW	8KW	10KW
	Peak Power	9KW		15KW	19.2KW	24KW	30KW
	Rated Battery Voltage	24V	48V				
Controller MPPT	Charging Current	60A		120A			
	Photovoltaic Input Interface	60A*1 route		60A*2 route(120A)			
	Maximum Photovoltaic Input Power	1440W	2880W	2880W*2			
	Photovoltaic Input Voltage Range	30V-180V(24V system); 60V-180V(48V system)					
	Conversion Efficiency	≈99%					
	Unattended Mode	In shutdown state: MPPT rechargeable when there is sunlight, achieving unmanned photovoltaic operation					
AC Input	Municipal Power Input	(L1-N)110VAC:80~130VAC					
	Voltage Range	(L1-N-L2)220VAC:160~260VAC/130~280VAC					
	Input Frequency Of Mains Power	45Hz~65Hz(intelligentautomatic detection)					
	Municipal Power Charging Current	Adjustable					
AC Output	Inverted Output Waveform	pure sine wave					
	Inverter Output Efficiency	≈90%					
	Inverter Output Voltage	(L1-N,L2-N):110VAC (L1-L2):220VAC					
	Inverter Output Frequency	50Hz/60Hz Adjustable					
	Energy Saving Mode Loss	5W					
Working Mode	Inverter Working Mode	City power priority mode, battery priority mode, energy-saving mode, unmanned operation, generator mode					
Battery Parameters	Support Battery Types	Lead acid battery/colloidal battery/lithium iron phosphate/ternarylithium battery/battery customization					
	Custom Parameters For Batteries	Constant voltage charging, float charging, battery recovery, mains power recovery, low voltage alarm, low voltage protection					
	Battery Charging Method	Lead acid: three-stage charging, constant current, constant voltage, float charging Lithium battery: constant current, constant voltage					
	The number of lithium battery strings is optional	Lithium iron phosphate: 3.2V monomer, ternary lithium battery: 3.7V monomer					
Protect	Low Battery Voltage	Battery undervoltage/overvoltage/overloadprotection/high temperature protection/charging method protection, etc					
Display	LED Display	Mains power status, inverter status, charging status, alarm					
	Screen Display	Working status, input/output voltage, photovoltaic information display, inverter parameter settings, etc					
	Display Language	Chinese/English					
Convert time		<10ms					
Cooling Method		Intelligent temperature control					
Communication		WIFI(RS485)/BMS(RS485)dry contact					
Operating Temperature		-10°C~40°C					
Altitude		≤3000m					
Machine size(mm)		525*420*167		625*485*180		675*520*195	
Dimensions(mm)		555*515*238		655*580*250		710*620*271	
Net Weight (KG)		25.5		35	38.7	47.5	52.5
Gross Weight (KG)		26.5		37	41.5	57.5	62