

NKD Single-phase Inverter With Built-in Charge Controller

(NKD-10KW, NKD-15KW, NKD-20KW, NKD-30KW)

MAIN FEATURES



A power-on test function, which can avoid the faults because of hazards of the inverter



A wide range of input frequency, which realizes stable operation of fuel generators



Frequency tracking, noise filtering and low distortion in inverter output



Product Specifications

Model:NKD-		NKD-8KW	NKD-10KW	NKD-15KW	NKD-20KW	NKD-30KW
Rated Power		8KW	10KW	15KW	20KW	30KW
Battery	Battery Voltage	192VDC/220VDC/240VDC				
	Voltage of Over discharge protection	168VDC/189VDC/210VDC				
	Restart voltage after low battery	216VDC/243VDC/270VDC				
Controller Types		With maximum power point tracking (MPPT) function controller				
Rate Current		Solar1: 50A;Solar 2: 50A				
Current Limiting Protection		Solar1: 52A;Solar 2: 52A				
Rate Voltage		192VDC/220VDC/240VDC				
System Identification Voltage Range		/				
Operating Voltage Range		DC260V-DC420V				
Charge mode		Three stages:constant current (quick charge), constant pressure, floating charge				
Battery Type		Sealed lead-acid battery, colloidal lead-acid battery, open lead-acidbattery (you can customize parameters to charge other types ofbatteries)				
PV module input power		192VDC:Solar 1,10KW; Solar 2,10KW; 220VDC:Solar 1,11.5KW; Solar 2,11.5KW; 240VDC:Solar 1,12.5KW; Solar 2,12.5KW;				
MPPT Controller	Vmax-pv	<420VDC				
	Vlow-pv	240VDC/250VDC/270VDC				
	Vstar-pv	260VDC/270VDC/290VDC				
	Vovet-pv	425VDC				
	Floating Charge Voltage (Lead Acid Battery)	220.8VDC/248.4VDC/276VDC (Can be customized)				
	Average charging Voltage (Lead Acid Battery)	232VDC/261VDC/290VDC(Can be customized)				
	PV module utilization	≤99.97%				
	Machine Efficiency	≥96.5%				
	Output Regulation Accuracy	±1.5%				
	Temperature Coefficient	±0.02%/°C				
Temperatue Compensation		14.2V-(Maximum Temperature-25C) *0.3				
Protective function		Input and output over-voltage protection, anti-reverse protection, short circuit protection, etc.				
Inverter	Input voltage	220VAC±20%				
	Input Frequency	50Hz/60Hz±5%				
	Output Voltage	110VAC/220VAC±5%				
	Output Frequency	50/60Hz±1%				
	Output wave	pure sine wave THD<4%(full load)				
	Conversion time	<10ms				
	Overload	110-120%/30S; >150%/300ms;				
	Efficiency	≥90% (100% resistive load)				
	Dynamic load voltage transient	<+5% (0-100%)				
	Defensive function		Output short circuit, overvoltage, low voltage, low battery power protection			
Other	Operating ambient temperature	-10-40°C				
	Environment relative humidity	20-90%(No Condensation)				
	Product Size: L*W*H (mm)	536*560*1015				635*566*1295
Weight(Kg)		125	148	165	182	252