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SNADI®

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PRODUCT
CATALOGUE

COMPANY PROFILE

Foshan SNAT Energy(SNADI Solar) Electrical Technology Co., LTD. was established in 2010, specialized in R&D and manufacturing of solar power system products, is a high-tech enterprise certificated.

SNADI's main products include:

Solar inverter, Solar charge Controller, UPS, Solar power system, Lithium energy storage battery, Lead-acid gel battery, etc

25000 m²

Production Space

2

Factories

200+

Employees

10+

Automatic Production Lines

26+

Million USD Investment



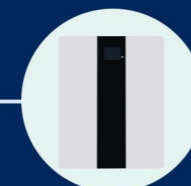
Solar Panel



PV Combiner Box



Solar Charge Controller



Battery



Solar Inverter



AC Load



CONTENTS

AL Solar Power System	01/02
Power Inverter Series	03/07
Solar Controller Series	08/09
Solar Inverter Series	10/14
PV Combiner Box	15/16
LiFePO4 Lithium Battery Bank	17/18
Solar Power Generator & Stacked Lithium Battery System	19/20
Case Show	21/22

NEW ENERGY • NEW LIFE • NEW FUTURE



AL Solar Power System

(AL-S600, AL-S1200, AL-S2200, AL-S3500, AL-S5000)

MAIN FEATURES

- Overcharge protection and overdischarge protection for a longer battery life
- LCD and LEDS for visualization of operation status of the equipment
- Solar array and battery non-anode system input;



All In One Solar Energy System

LiFePO4 Battery Inbuilt (Solar Generator)
(2KW, 3KW, 4KW, 5KW, 6KW)

MAIN FEATURES

- Combined solar inverter, MPPT Solar charge controller, and LiFePO4 lithium battery
- Simple installation and free maintenance to user
- Pure sine wave inverter power supply stable electricity to house appliances



Product Specifications

Model:AL		AL-S600	AL-S1200	AL-S2200	AL-S3500	AL-S5000
Inverter	Battery Voltage	12.8V	25.6V			
	In-built Battery Specification	50AH/12.8V	50AH/25.6V	100AH/25.6V	75AH/51.2V	100AH/51.2V
	Rated Power	600W	1200W	2200W	3500W	5000W
	Output Voltage	110/220VAC				
	Output Frequency	50/60Hz				
	Output Waveform	Pure Sine Wave				
	Input Voltage Range	72-138/145-275VAC		85-138/170-275VAC		
	Input Frequency	45-65Hz				
MPPT Charge	Maximum Photovoltaic Voltage	≤100V	≤100V	≤150V		
	PV Input Range Voltage	18-100V	35-100V	60-150V		
	Rated Charge Current		MPPT 30A		60A(MAX.)	
	Maximum Power	420Wp	840Wp	1600Wp	3000Wp	
	Voltage Of Floating Charge	14.2V	28.4V	56.8V		
	MPPT Efficiency		≥97%	≥99%		
DC Output	Voltage Of High-voltage Protection	16V	32V	64V		
	Voltage Of High Voltage Recovery	14.5V	29V	58V		
	Voltage Of Low Voltage Recovery	13V	26V	52V		
	Voltage Of Low Voltage Protection	11.2V	22.4V	44.8V		
	5VDC USB Output Port	2 Units/MAX 2A				
12VDC Output Port	2DC Ports/MAX 2A					
Other	Heat Dissipation/Cooling	Temperature Control By Intelligent Exhaust Fan				
	Ambient Temperature For Operation	-20-+50°C				
	Ambient Temperature For Storage	-25-+55°C				
	Operation/Storage Conditions	0-90% (no condensation)				
	External Dimensions: DxWxH (mm)	460*182*397	485*202*406	540*229*464	577*350*644	627*405*664
	Packing Dimensions: DxWxH (mm)	527*267*470	552*277*477	570*310*535	665*450*825	715*505*845




Product Specifications

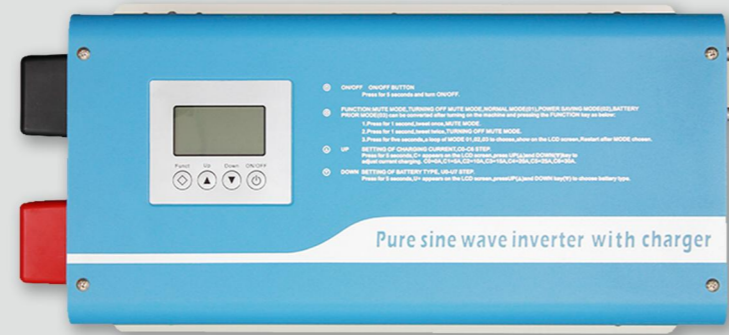
Model:ALP		2KW	3KW	4KW	5KW	6KW
Inverter	Battery/System Voltage	51.2VDC/48VDC				
	Built-in LiFePO4 Lithium	100AH/150AH/200AH*51.2V				
	Rated Power	2000W	3000W	4000W	5000W	6000W
	Input Voltage (VAC)	85-138VAC/170-275VAC				
	Input Frequency (Hz)	45-65				
	Output Voltage (VAC)	110/220				
	Output Frequency (Hz)	50/60				
	Output Wave	Pure Sine Wave				
MPPT Solar Input	MPPT Voltage Range	60VDC-150VDC				
	PV Power	1500W	3000W			
	Rated Charge Current	30A (Max.)	60A (Max.)			
	MPPT Efficiency	≥99%				
	Floating Charge Voltage	57.6VDC				
DC Output	Maximum Power	3200Wp				
	Low Voltage Recovery Voltage	57.6VDC				
	Low Voltage Protection Voltage	53.6VDC				
	5VDC USB Output	2PCS/Max.2A				
	12VDC Output Ports	2PCS/Max.2A				
Other Parameters	Operating Ambient Temperature	-20°C-50°C				
	Storage Ambient Temperature	-25°C-55°C				
	Operating/Storage Ambient	0-90% No Condensation				
	Heat Dissipation/Cooling	Temperature Control By Intelligent Exhaust Fan				
	Display	Digital LCD				
	Packing Dimensions: DxWxH (mm)	620*420*580				

FT Series Pure Sine Wave Inverter With Charger

(1KW, 1.5KW, 2KW, 3KW, 4KW, 5KW, 6KW, 8KW, 10KW)

MAIN FEATURES



-  Pure sine wave output for compatibility with loads of different types
-  Visualization of operation status of the equipment through a digital LCD
-  A wide range of input voltage, accurate output and automatic voltage stabilization



FT Pro Series Pure Sine Wave Inverter With Charger

(3KW, 4KW, 5KW, 6KW)

MAIN FEATURES

-  Comptible to Lead acid battery & Lithium battery
-  Adjustable LCD screen to set charging current and voltage based on your battery



Product Specifications

Model:FT		1KW	1.5KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW
Rated Power		1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W	10000W
Battery	Rated Voltage	12VDC/24VDC/48VDC			24VDC/48VDC			48VDC/96VDC		
	Charge Current	30A (default) -CO-C6								
	Battery Type	U0-U7								
Input	Voltage Range	85-138VAC/170-275VAC								
	Frequency	45-65Hz								
	Product Size:L*W*H(mm)	486*247*179			555*307*189			653*332*260		
	Package Size: L*W*H(mm)	550*310*230			640*370*240			715*365*310		
Output	Voltage Range	110VAC/220VAC; ±5%(Inversion mode)								
	Frequency	50/60Hz±1%(Inversion mode)								
	Output Wave	Pure Sine Wave								
	Conversion Time	<10ms(Typical load)								
	Efficiency	>85% (80% resistive load)								
	Overload	110-120%/30S; >160%/300ms;								
	Protection Function	Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc.								
	Operation Of Ambient Temperature	0-40°C								
	Ambient Temperature For Storage	-15-+50°C								
Operation/Storage Ambient	0-90% No Condensation									

P.S.: We keep the right to change without any information.

Product Specifications




Model:FT		3KW	4KW	5KW	6KW
Rated Power		3000W	4000W	5000W	6000W
Battery	Rated Voltage	12VDC/24VDC/48VDC	24VDC/48VDC		48VDC/96VDC
	Charge Current	30A (default) -CO-C6			
	Battery Type	U0-U7			
Input	Voltage Range	85-138VAC/170-275VAC			
	Frequency	45-65Hz			
	Product Size:L*W*H(mm)	486*247*179	555*307*189		
	Package Size: L*W*H(mm)	550*310*230	640*370*240		
Output	Voltage Range	110VAC/220VAC; ±5%(Inversion mode)			
	Frequency	50/60Hz±1%(Inversion mode)			
	Output Wave	Pure Sine Wave			
	Conversion Time	<10ms(Typical load)			
	Efficiency	>85% (80% resistive load)			
	Overload	110-120%/30S; >160%/300ms;			
	Protection Function	Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc.			
	Operation Of Ambient Temperature	0-40°C			
	Ambient Temperature For Storage	-15-+50°C			
Operation/Storage Ambient	0-90% No Condensation				

P.S.: We keep the right to change without any information.

FT-B Series Pure Sine Wave Inverter With Charger

(0.3KW、0.5KW、0.7KW、1KW)

MAIN FEATURES




-  Pure sine wave output for compatibility with loads of different types
-  Visualization of operation status of the equipment through a digital LCD
-  A wide range of input voltage, accurate output and automatic voltage stabilization



SN Single-phase IGBT Low Frequency Inverter

(6KW、8KW、10KW、12KW、15KW、20KW、30KW)

MAIN FEATURES

-  A wide range of input frequency, which realizes stable operation of fuel generators
-  A power-on test function, which can avoid the faults because of hazards of the inverter
-  Overall automatic protection and alarms such as output overload protection



Product Specifications

Model:FT-B		0.3KW	0.5KW	0.7KW	0.7KW	1KW
Rated Power		300W	500W	700W	700W	1000W
Battery	Rated Voltage	12VDC/24VDC		24VDC	12VDC	12VDC/24VDC
	Voltage Range	73-138VAC/145-275VAC				
Input	Frequency	45-65Hz				
	Product Size:L*W*H(mm)	302*122*188			316*149*215	
	Package Size: L*W*H(mm)	375*195*260			410*215*280	
Output	Voltage Range	110VAC/220VAC; ±5%(Inversion mode)				
	Frequency	50/60Hz±1%(Inversion mode)				
	Output Wave	Pure Sine Wave				
	Conversion Time	<10ms(Typical load)				
	Efficiency	>85% (80% resistive load)				
	Overload	110-120%/30S; >160%/300ms;				
	Protection Function	Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc.				
	Operation Of Ambient Temperature	0-40℃				
	Ambient Temperature For Storage	-15-+50℃				
Operation/Storage Ambient	0-90% No Condensation					

P.S.: We keep the right to change without any information.

Product Specifications

Model:SN-		6KW	8KW	10KW	12KW	15KW	20KW	30KW	
Rated Power		6KW	8KW	10KW	12KW	15KW	20KW	30KW	
Battery	Rated Voltage	96VDC/192VDC			192VDC				
	Charge Current	10A-20A							
Input	Low Voltage Protection	84VDC/168VDC			168VDC				
	Voltage Range	88-132VAC/176-264VAC							
	Frequency	45-65Hz							
Output	Voltage Range	110VAC/220VAC; ±5%(Inversion mode)							
	Frequency	50/60Hz±1%(Inversion mode)							
	Output Wave	Pure Sine Wave							
	Conversion Time	<10ms(Typical load)							
	Efficiency	>85% (100% Resistive Load)			>90% (100% Resistive Load)				
	Overload	110-120%/30S; >160%/300ms;							
	Protection Function	Battery overvoltage protection, battery undervoltage protection, overload,protection, short circuit protection, overtemperature protection, etc.							
	Operation Of Ambient Temperature	0-40℃							
	Ambient Temperature For Storage	-15-+50℃							
Operation/Storage Ambient	0-90% No Condensation								
Product Dimensions:DxWxH(mm)		638*260*750			690*370*810		740*720*1340		
Gross Weight (KG)		80	90	110	130	150	170	227	

TP Three-phase IGBT Low Frequency Inverter

(10KW、20KW、30KW、50KW、60KW、80KW、100KW、150KW、200KW)

MAIN FEATURES

- Intelligent battery charge
- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology
- Suitability for industrial applications such as machine tools and wire cutters



Product Specifications

Model:TP-	TP-10KW	TP-20KW	TP-30KW	TP-50KW	TP-60KW	TP-80KW	TP-100KW	TP-150KW	TP-200KW	
Rated Power	10KW	20KW	30KW	50KW	60KW	80KW	100KW	150KW	200KW	
Working methods and principles PWM (pulse width modulation) based on DSP accurate control technology and double built-in MCUs Complete isolation of the outout power supply										
AC Input	Phase	Three phase N+G								
	Voltage	AC220V/AC380V±20%								
	Frequency	50Hz/60Hz+5%								
DC Input	DC voltage	DC192V/DC220V/DC240V/DC384V			DC384V					
	Floating battery	13.6V of each battery x battery quantity [13.6Vx 16 batteries = 217.6V]								
	Cut-off voltage	10.8V of each battery x battery quantity [10.8Vx 16 batteries = 172.8V]								
AC Output	Phase	Three phase N+G								
	Voltage	AC220V/AC380V ± 1% (steady load)								
	Frequency	50Hz/60Hz+5%(mains) 50Hz+0.5% (battery)								
	Efficiency	≥90% (Load100%)								
	Output wave form	Sine wave								
	Total harmonic distortion	Linear load<3%. Non-linear loads<5%								
	Dynamic load voltage	<±5% (From 0 to 100%)								
	Instant recovery time	<100ms								
System Specifications	Battery and mains switching	3S-5S		<4ms						
	Unbalanced voltage	<±3% <±1% (Unbalanced load voltage)								
	Overload	120%, 20s; > 150%, 100ms			125%,20s;>150%,1s					
	Working efficiency	≥90% (load: 100%)								
System Specifications	Computer communication	RS232/485 (SNMP Remote Monitoring Network Adapters)								
	Operating temperature	-10-40°C								
	Relative humidity (no condensation)	0.90% (no condensation)								
Structure	Noise from the machine 1M	40-50dB			50-60dB					
	Dimensions:D×W×H(mm)	580*750*920		608*728*1475		1138*795*1725		1138*945*1725		
	Weight (Kg)	180	220	300	470	620	680	730	954	980

CM-MPPT Solar Charge Controller

(12-48V/30A、40A、50A、60A、80A、100A)

MAIN FEATURES

- High precision and high efficiency with DSP chip control
- Display technology parameter with 7 inch touch screen
- RS485 remote communication and data transmission(optional)

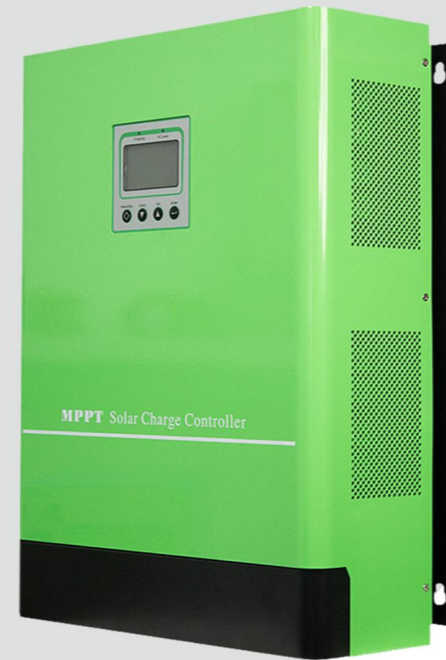


Product Specifications

Model:CM-	30A	40A	50A	60A	80A	100A	
Charging Mode	MPPT Automatic Maximum Power Point Tracking						
Charging Method	Three stages: Constant Current (MPPT), Balanced Charging, Floating Charge						
System Type	Automatic Identification/Manual Setting						
System Identification Voltage Range	12V System	DC9V-DC15V					
	24V System	DC18V-DC30V					
	48V System	DC36V-DC60V					
Soft Start Time	12V/24V/48V	≤10s					
Dynamic Response Recovery Time	12V/24V/48V	≤500us					
Static Power	12V/24V/48V	≤2W					
Machine Efficiency	12V/24V/48V	≥96.5%					
PV Module Utilization	12V/24V/48V	≤99%					
Input Characteristics							
MPPT Operating Voltage Range	12V System	DC18V-DC150V					
	24V System	DC34V-DC150V					
	48V System	DC65V-DC150V					
Maximum Solar Panel Input Power	12V System	420W	570W	700W	900W	1100W	1400W
	24V System	840W	1130W	1400W	1700W	2200W	2800W
	48V System	1650W	2270W	2800W	3400W	4400W	5600W
Output Characteristics							
Optional Battery Type (Default is lead-acid maintenance-free battery)	12V/24V/48V	Lead-acid maintenance-free Battery, Gel Battery, Lithium Battery (Can also be customized for other types of battery)					
Current Limiting Protection	12V/24V/48V	32A	42A	52A	62A	82A	102A
Temperature Coefficient	12V/24V/48V	± 0.02%/°C					
Temperature Compensation	12V/24V/48V	14.2V-(Maximum Temperature -25°C)*0.3					
Output Regulation Accuracy	12V/24V/48V	≤±15%					
Protection	Input Low Voltage Protection	Reference Input Characteristics					
	Input High Voltage Protection	Reference Input Characteristics					
	Short Circuit Protection	After 5 trial starts will enter the protection state, Restart Recovery					
	Temperature Protection	90°C					
	Temperature Rise Protection	Reduce Power Output When Exceed 85°C					
Other Parameters	Noise	≤50dB					
	Heat Dissipation Method	Forced air cooling, fan speed is adjusted by temperature					
	Mechanical Protection Type	IP21					
PV Module Configuration	Humidity	0-90%RH (No condensation)					
	System Battery Voltage	PV module load voltage (Recommended Value)					
	12V System	18V-60V (30V module*1 string, 36V module*1 string)					
	24V System	36V-72V (30V module*2 string, 36V module*2 string)					
48V System	72V-144V (30V module*3 string, 36V module*3 string)						

CM-MPPT High Voltage Charge Controller

(96-192V / 50 A, 100A)



MAIN FEATURES

- Innovative maximum power point tracking technology, the conversion rate of up to 97%
- Quick scan of the entire I-V curve, Efficient track the maximum power point.
- RS485 communication interface

Product Specifications

Model:CM-		50A	100A
Charging Mode		MPPT Automatic Maximum Power Point Tracking	
Charging Method		Three stages: Constant Current (MPPT), Balanced Charging, Floating Charge	
System Type		96V/192V	
System Voltage Range	96V System	DC72V-DC120V	
	192V System	DC144V-DC240V	
Soft Start Time	96V/192V	≤10s	
Dynamic Response Recovery Time	96V/192V	≤500us	
Static Power	96V/192V	≤6W	
Machine Efficiency	96V/192V	≤96.5%	
PV Module Utilization	96V/192V	≤99%	
Input Characteristics			
MPPT Operating Voltage Range	96V System	DC130V-DC180V / DC130V-DC420V	
	192V System	DC260V-DC420V	
Maximum Solar Panel Input Power	96V System	5300W	10600W
	192V System	8000W	20000W
Output Characteristics			
Optional Battery Type (Default is lead-acid maintenance-free battery)	96V/192V	Lead-acid maintenance-free Battery, Gel Battery, Lithium Battery (Can also be customized for other types of battery)	
Current Limiting Protection	96V/192V	82A	102A
Temperature Coefficient	96V/192V	± 0.02%/°C	
Temperature Compensation	96V/192V	14.2V-(Maximum Temperature -25°C)*0.3	
Output Regulation Accuracy	96V/192V	≤±1.5%	
Protection	Input Low Voltage Protection	Reference Input Characteristics	
	Input High Voltage Protection	Reference Input Characteristics	
	Short Circuit Protection	After 5 trial starts will enter the protection state, Restart Recovery	
	Temperature Protection	90°C	
	Temperature Rise Protection	Reduce Power Output When Exceed 85°C	
Other Parameters	Noise	≤50dB	
	Heat Dissipation Method	Forced air cooling, fan speed is adjusted by temperature	
	Mechanical Protection Type	IP21	
PV Module Configuration	Humidity	0-90%RH (No condensation)	
	System Battery Voltage	PV module load voltage (Recommended Value)	
	96V System	144V-320V (30V module*9 string, 36V module*8 string)	
	192V System	230V-420V (30V module*11 string, 36V module*10 string)	

NKM Series Hybrid Solar Inverter

(6KW, 8KW, 10KW)



MAIN FEATURES

- Double CPU intelligent control technology, performance excellence
- The power mode / energy saving mode / battery mode can be set up.Flexible application
- The LCD real-time display device parameters

Product Specifications

Model:NKM-		6KW	8KW	10KW
Power Rating(w)		6KW	8KW	10KW
Battery	Rated Voltage(VDC)	48VDC		
	Charge Current	30A MAX		
	Battery Type	Can be set		
Input	Voltage Range	170-275VAC		
	Frequency	45-65Hz		
	Voltage Range	220VAC; ±5%(Inverter mode)		
Output	Frequency	50/60Hz±1%(Inverter mode)		
	Output Wave	Pure Sine Wave		
	Change Time	<10ms(Typical load)		
	Frequency	>85% (80% Resistive load)		
	Overcharge	110-120%/30S; > 160%/300ms;		
	Protection Function	Battery over-voltage and low-voltage protection, overload protection, short circuit protection, over-temperature protection		
	MPPT Voltage Range	48VDC:60V~150VDC		
Solar Controller	PV Power	4000W	4000W	5000W
	Rated Charge Current	80A(Max)	80A(Max)	100A(Max)
	MPPT Efficiency	≥99%		
	Average Charging Voltage(lead acid battery)	56.8VDC		
	Floating Charge Voltage	55.2VDC		
	Operating Ambient Temperature	-15-+50°C		
	Storage Ambient Temperature	-20-+50°C		
	Operating / storage Environment	0-90% No Condensation		
	Dimensions:W*D*H (mm)	476*269*680	476*319*77	
	Packing size: W*D*H (mm)	575*370*860	575*420*950	

Note: Our company has the right of changing this user manual without any information

NKM Series Hybrid Solar Inverter

(0.3KW, 0.5KW, 0.7KW, 1KW, 1.5KW, 2KW, 3KW, 4KW, 5KW, 6KW)

MAIN FEATURES

- Double CPU intelligent control technology, performance excellence
- The power mode / energy saving mode / battery mode can be set up. Flexible application
- The LCD real-time display device parameters



Product Specifications

Model:NKM-		0.3-1KW		1.5-6KW		
Power Rating(w)		300	700	1500	3000	5000
		500	1000	2000	4000	6000
Battery	Rated Voltage(VDC)	12/24		12/24/48	24/48	48
	Charge Current	10A MAX		30A MAX		
	Battery Type	Can be set				
Input	Voltage Range	73-138VAC/145-275VAC		85-138VAC/170-275VAC		
	Frequency	45-65Hz				
Output	Voltage Range	110VAC/220VAC; ±5%(Inverter mode)				
	Frequency	50/60Hz±1%(Inverter mode)				
	Output Wave	Pure Sine Wave				
	Change Time	<10ms(Typical load)				
	Frequency	>85% (80% Resistive load)				
	Overcharge	110-120%/30S; >160%/300ms;				
	Protection Function	Battery over-voltage and low-voltage protection, overload protection, short circuit protection, over-temperature protection				
Solar Controller	MPPT Voltage Range	12VDC:15V-150VDC;24VDC:30V-150VDC;48VDC:60V ~150VDC				
	PV Power	12VDC-30A(400W) ; 24VDC-30A(800W)		12VDC-60A(800W); 24VDC-60A/1600W) ; 48VDC-60A(3200W)		
	Rated Charge Current	30A(Max)		60A(Max)		
	MPPT Efficiency	≥99%				
	Average Charging Voltage(lead acid battery)	12V/14.2VDC;24V/28.4VDC;48V/56.8VDC				
	Floating Charge Voltage	12V/13.75VDC;24V/27.5VDC;48V/55VDC				
	Operating Ambient Temperature	-15-+50°C				
	Storage Ambient Temperature	-20-+50°C				
	Operating / storage Environment	0-90% No Condensation				
	Dimensions:W*D*H (mm)	420*321*125		545*461*170		
Packing size: W*D*H (mm)	515*380*205		645*555*260			

Note: Our company has the right of changing this user manual without any information

NKH High Frequency MPPT Hybrid Solar Inverter

(3.5KVA, 5.5KVA, 10KVA, 12KVA)

MAIN FEATURES

- Overload/ Over temperature/short circuit protection
- Configurable battery charging current based on applications via LCD setting
- Smart battery charger design for optimized battery performance



Product Specifications




Model:NKH-		NKH-3.5KVA	NKH-5.5KVA	NKH-10KVA	NKH-12KVA
Rated Power		3KW	5KW	8KW	10KW
Input	Voltage	208VAC/220VAC/230VAC/240VAC			
	Selectable Voltage Range	170-280VAC(For Personal Computers)			
	Frequency Range	90-280VAC(For Home Appliances)			
Output	AC Voltage Regulation (Batt .Mode)	50Hz/60Hz(Auto sensing)			
	Surge Power	6KW	10KW	16KW	20KW
	Efficiency (Peak)PV to INV	208VAC/220VAC/230VAC/240VAC ±5%			
	Efficiency (Peak)Battery to INV	97%			
	Transfer Time	94%			
	Overload Capacity	10 ms			
Battery & AC Charge	Battery Voltage	1min@102%-110% Load, 10s@110%-130% Load, 3s@130%-150% Load 02s@150% Load		24VDC	
	Floating Charge Voltage	48VDC		27VDC	
	Overcharge Protection	32VDC		64VDC	
	Maximum Charge Current	60A	80A	160A	
PV Charge	Maximum PV Array Power	1500W	5500W	11000W	
	MPPT Range Operating Voltage	30-115VDC		120-430VDC	
	Maximum PV Array Open Circuit Voltage	145VDC		450VDC	
AC+PV Charge	Maximum Charge Current	60A	80A	160A	
	Maximum Efficiency	99%			
Physical	Maximum Charge Current	120A	80A	160A	
	Dimension D*W*H(mm)	439*320*128		640*490*152	
	Net Weight(kg)	8	9.2	20	
Operating Environment	Communication interface	USB/RS232/GPRS/WIFI			
	Humidity	5% to 95% Relative Humidity(Non-condensing)			
	Operating Temperature	0°C-55°C			
	Storage Temperature	-15°C-60°C			

Note: Our company has the right of changing this user manual without any information

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			
MPPT Controller	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;			
	Vmax-pv	<420VDC			
Vlow-py	240VDC/250VDC/270VDC				
Vstar-pv	260VDC/270VDC/290VDC				
Vovet-pv	425VDC				
Floating Charge Votage (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				
Weight(Kg)	125	148	165	182	252

NKG Three-phase Inverter With Built-in Charge Controller

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

MAIN FEATURES

-  Visualization of operation status of the equipmentthrough simple LEDs and a LCD
-  Settable battery protection parameters, and a function of password protection;
-  Excellent performance because of the DSP intelligent control inversion technology



Product Specifications

Model:NKG-	NKG-10KW	NKG-15KW	NKG-20KW	NKG-30KW
Rated Power	10KW	15KW	20KW	30KW
Battery	Battery Voltage	192VDC/216VDC/240VDC		
	Low power shutdown voltage	172VDC/194VDC/216VDC		
	Restart voltage after low battery	216VDC/243VDC/270VDC		
MPPT Controller	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/216VDC/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-acid battery (you can customize parameters to charge other types of batteries)		
	PV module input power	192VDC:Solar 1: 10KW,Solar 2: 10KW, / 216VDC:Solar 1: 11.5KW,Solar 2: 11.5KW, / 240VDC:Solar 1: 12.5KW, Solar 2: 12.5KW		
	Vmax-pv	<420VDC		
Vlow-py	240VDC/250VDC/270VDC			
Vstar-pv	260VDC/270VDC/290VDC			
Vovet-pv	425VDC			
Floating Charge Votage (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 phase number	Three-phase+N+G		
	Input voltage	AC380VAC±15%		
	Input frequency	50Hz/60Hz±5%		
	Output voltage	AC220V/AC380V±2% (Steady state load)		
	Output frequency	50Hz/60Hz±5%(main supply) 50Hz±0.1% (Battery powered)		
	Efficiency	≥90% (100% resistive load)		
	Output waveform	Pure sine wave		
	Total harmonic distortion	Linear load<3% Nonlinear load<5%		
	Dynamic load voltage transient	<±5% (0-100%)		
	Instantaneous recovery time	<10ms		
Battery and mains switching time	1S-3S			
Other	Unbalanced voltage	<±3% (Balancing load voltage)		
	Overload capacity	120% 20s; > 150%, 100ms		
	Operating ambient temperature	-10-40°C		
Structure	Relative humidity	0~90% (No Condensation)		
	Noise	40-50dB		
Structure	Product Size : DxWxH(mm)	635*566*1295		
	Package size: DxWxH(mm)	760*690*1540		
Weight(Kg)	180	220	263	320

Photovoltaic Array Combiner Box (H4T, H4T2, H6T, H8T, H10T)

MAIN FEATURES

- Multiple PV input arrays each of which has a maximum current of 16A
- A degree of protection of IP65 for meeting the need of outdoor installation
- A special high-voltage circuit breaker for output control of the PV module



Photovoltaic Array Combiner Box (HT4, HT6, HT8, HT10, HT16)

MAIN FEATURES

- Single way photovoltaic array output, maximum open circuit voltage 1000V.
- Photovoltaic special high voltage circuit breaker control output
- Photovoltaic special high voltage lightning protection device protection



Product Specifications

Model		H4T	H4T2	H6T	H8T	H10T
Input Data	Number Of PV Input Arrays	4	4	6	8	10
	Maximum Current Of Each PV Input Array	16A				
	Fuse For Each PV Input Array	16A				
	Wire Number Of Each PV Input Array	PG7, 4mm ²				
Output Data	Number Of Output Channel	1	2			
	Maximum Output Current	60A	30A/each way, total 60A	30A/each way, total 60A	40A/each way, total 80A	50A/each way, total 100A
	Wire Number Of Each Output Channel	Pg16, each way 8mm ²	Pg16, each way 8mm ²	Pg16, each way 10mm ²	Pg16, each way 10mm ²	Pg16, each way 12mm ²
	Maximum Output Voltage	440VDC				
DC Output Circuit Breaker		Yes				
Protection		IP65				
Temperature		-30°C ~ +60°C				
Other Data	Reference Weight (net weight/gross weight)	5.3/9.3	8.4/12.9		9.5/14.3	10.8/15.6
	Equipment Dimensions(DXWXH)	340*300*140mm	360*340*145mm		400*420*145mm	
	Packing Dimensions(DXWXH)	450*420*245mm	470*450*255mm		530*510*255mm	
	Cooling Method	Natural Cooling				
	Surge Protection	Yes				
	Ground Wire Number	≥6mm ²				




Product Specifications

Model:	HT4	HT6	HT8	HT10	HT16
PV Array Input Numbers	4	6	8	10	16
Max Single PV Array Current	16A				
Single PV Array Fuse	16A				
Single PV Array Wire Size	4mm ²				
Output Numbers	1				
Max Output Current	40A	60A	80A	100A	160A
Output Wire Size mm ²	10mm ²	16mm ²	20mm ²	25mm ²	35mm ²
Max Output Voltage	1000VDC				
DC Output Circuit Breaker	Yes				
Protection	IP65				
Temperature Range	-30°C~60°C				
Reference Weight (N.W/G.W.)	7.6 Kg/13Kg			12.2 Kg/18.8Kg	
Machine Size (D*W*H)	458*445*150mm			458*445*150mm	
Packaging Size (D*W*H)	510*500*252mm			620*550*262mm	
Cooling Way	Natural Cooling				
SPD Protection	20KA-40KA				
Ground Wire Size	≥6mm ²				

LiFePO4 Lithium Battery Bank

(25.6V&51.2V-100Ah, 150Ah, 200Ah)

MAIN FEATURES




-  Big discharge current, Suitable for solar system
-  Smart BMS system to optimize the performance
-  RS485/CAN compatible with different brand of solar inverter

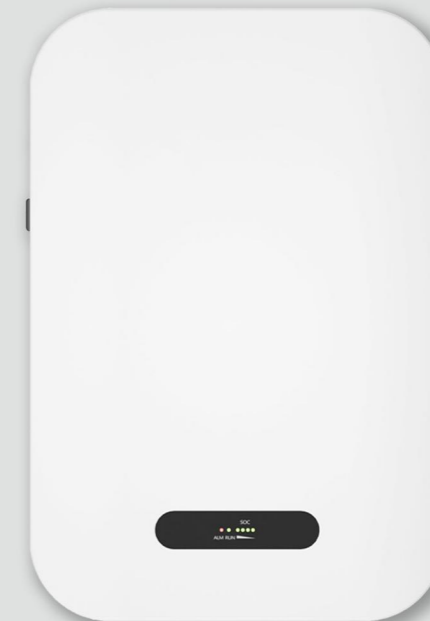


Rechargeable Li-ion Battery

(51.2V 100Ah)

MAIN FEATURES

-  Big discharge current, Suitable for solar system
-  Smart BMS system to optimize the performance
-  RS485/CAN compatible with different brand of solar inverter



Product Specifications

Model	LPBF24100	LPBF24150	LPBF24200	LPBF48100	LPBF48150	LPBF48200
Rated Capacity	2.56KWH	3.84KWH	5.12KWH	5.12KWH	7.68KWH	10.24KWH
Nominal Voltage	25.6	25.6	25.6	51.2	51.2	51.2
Voltage Range	20-28.8	20-28.8	20-28.8	40-57.6	40-57.6	40-57.6
Recommend Charge Cut-off Voltage	28.8	28.8	28.8	57.6	57.6	57.6
Recommend Discharge Cut-off Voltage	20	20	20	40	40	40
MAX. Charge & Discharge Current	100A/150A/200A					
DOD	>95%					
Modules Connection	1~6 in parallel					
Communication	CAN & RS485					
Ingress Protection	IP21					
Cycle Life	>3000 @25°C					
Working Temperature Range	Discharge:-20°C to +65°C, Charge:+0°C to +55°C					
Internal Resistance	≤30mΩ					
Maximum Continuous Charging Current	0-70A					
Maximum Continuous Discharge Current	0-100A					
Power Instructions	Have					
Weakness Switch	Often Open Often Closed					
RS485 Communication Port	Two					
Display Screen	Have					
Storage Temperature	Save For Three Months From 0 °C To 30°C					
Transport And Storage Form	Static Batteries Shall Be transported And Stored Under Semifilled Conditions (About 70%)					
Charging And Protection Voltage	3.75V±50mV(monomer)					
Overcharge is slow, overvoltage	3.55V±50mV(monomer)					
Discharge Protection Voltage	2.2V±100mV(monomer)					
Overload, Complex Voltage	2.7V±100mV(monomer)					
Overcurrent Protection	180±10A					
Short circuit Protection	(Release condition is off- load) / MOS Tube Bears The Highest Short Circuit Current					
Balanced Function	Equilibrium Current is 45 ± 5mA					

Product Specifications

Items	Specifications	Remark
Nominal Capacity	100Ah	0.2C Standard discharge
Minimum Capacity	98Ah	
Nominal Voltage	3.2V	Mean Operation Voltage
Delivery Voltage	≥3.2V	Within 10 days from Factory
Charge Voltage	3.65±0.03V	By standard charge method
Standard Charging Method	23±3°C, 0.2C constant current, 3.65V constant voltage charge to 3.65V, continue charging till current decline to ≤0.02C	
Charge Current	0.2C, 20A	Standard charge, charge time about 7h(Ref)
	0.5C, 50A	Rapid Charge, charge time about: 2h(Ref)
Standard Discharging Method	0.2C constant current discharge to 2.5V	
Cell Internal Impedance	≤2mΩ	Internal resistance measured at AC 1KHZ after 50% charge
Maximum Charge Current	0.5C, 50A	For continuous charging mod
Maximum Discharge Current	1C, 100A	For continuous discharging mode
Operation Temperature and relative humidity Range	Charge: 0.2C(0-10°C) 60±25%R.H. 0.5C(10-45°C) Discharge: 0.2C(-15~15°C) 60±25%R.H. 1C(15-60°C)	Charge at a very low temperature such as below 0°C, will be get a lower capacity and reduce cycle life of the battery
Storage temperature for a long time	0-45°C 60±25%R.H.	Do not storage exceed half year. Must charge once when storage for half year. must charge the battery which with protect circuit when storage for three months.

AL- AC & DC Solar Power Generator (0.3KW/12V、0.5KW/12V、1KW/12V、1KW/24V、1.5KW/24V)



MAIN FEATURES

- A wide range of applicable loads because of pure sine wave AC output
- Convenient and practical 5VDC USB output port and 12VDC output port
- Excellent performance because of an MCU intelligent control technology

High Quality Modular&Stacked Lithium Battery System (51.2V 100-900Ah with 5000 cycles)



MAIN FEATURES

- Optional cell brand and IP rate (IP20/IP65)
- Modular & Stacked design for easy installation and extension
- With LCD screen and CAN/RS485/RS232 communication interface

Product Specifications

Model:AL		0.3KW/12V	0.5KW/12V	1KW/12V	1KW/24V	1.5KW/24V	
Inverter	Battery Voltage	12V			24V		
	In-built Battery Specification	1*55AH/12V			100AH/12V	2*55AH/12V、2*100AH/12V	2*100AH/12V
	Rated Power	300W	500W	1000W	1000W	1500W	
	Output Voltage	110/220VAC					
	Output Frequency	50/60Hz					
	Output Waveform	Pure Sine Wave					
Charge By A Mains Supply	Input Voltage	110/220VAC-->(* means an optional function)					
	Charge Current	10A(MAX) -* (* means an optional function)		10A(MAX) -* (* means an optional function)			
Solar Input	Maximum Photovoltaic Voltage	≤25V			≤50V		
	Charge Voltage	10-25V			20-50V		
	Rated Charge Current(A)				30A		
	Maximum Power(Wp)	360Wp			720Wp		
	Voltage Of Overcharge Protection	14.2V			28.4V		
	Voltage Of Overcharge Recovery	14.0V			28.0V		
	Voltage Of Floating Charge	13.7V			27.4V		
DC Output	Voltage Of High-voltage Protection	16V			32V		
	Voltage Of High Voltage Recovery	15.2V			30.4V		
	Voltage Of Low Voltage Recovery	12.6V			25.2V		
	Voltage Of Low Voltage Protection	11V			22V		
	5VDC USB Output Port	2 ones/MAX 2A					
	12VDC Output Port	2 DC ports + backboard 12V terminal block (MAX 8A)					
	Starting Temperature Of The Exhaust Fan	>45°C					
Ambient Temperature For Operation	0-40°C						
Ambient Temperature For Storage	-25-+55°C						
Operation/Storage Conditions	0-90% (no condensation)						
External Dimensions: DxWxH (mm)	343*225*443		423*260*453		513*310*493		
Packing Dimensions: DxWxH (mm)	420*290*490		520*370*520		610*420*550		

Inverter Parameter Table

Model:		NKH-5KW	NKH-10KW
Rated Power		5000W	10000W
Mains Input	Rated Input Voltage (Settable)	208VAC/220VAC/230VAC/240VAC	
	Mains Supply Input Voltage Range	170-280VAC; 90-280VAC	
	Mains Supply Input Frequency	50Hz/60Hz(Auto detection)	
	Rated Output Voltage (settable)	208VAC/220VAC/230VAC/240VAC ±5%	
	Surge Power	20000VA	
Output	Efficiency	94%	
	Switching Time	10ms	
	Overload power	1min@102%-110% Load, 10s@110%-130% Load, 3s@130%-150% Load, 0.2s@>150% Load	
	Battery Voltage Rating	51.2VDC	
Battery And AC Charging	Floating Charge Voltage	54VDC	
	Overcharge Protection	64VDC	
	Maximum Charging Current	80A	160A
PV Charging	Maximum PV Array Power	PV 5500w	1 way PV 5500w; 2 way PV 5500w
	MPPT Range Operating Voltage	120-430VDC	
	Maximum PV Array Open Circuit Voltage	450VDC	
	Maximum Charge Current	80A	160A
Mains Supply And PV Charging	Maximum Efficiency	98%	
	Mains Supply and PV charging Maximum charging current (AC charger plus PV charger)	80A	160A
Basic Specifications	Communication Interface	USB/RS232/GPRS/WIFI	
	Humidity	5% to 95% relative humidity(non-condensing)	
Working Environment	Operating Temperature Range	0°C-55°C	
	Storage Temperature	-15°C-60°C	
Dimension (L*W*H)		770*410*222.5mm	930*410*222.5mm

Off Grid Solar Products Manufacturer

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