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Advanced Solar energy system Solutions



Off Grid Solar Product Manufacturer

-Since 2010



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



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NEW ENERGY • NEW LIFE • NEW FUTURE



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 eormance
- 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 eormance
- 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℃					
Working Temperature Range	Discharge:-20℃ to +65℃, Charge:+0℃ to +55℃					
Internal Resistance	≤30m Ω					
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 ℃ To 30℃					
Transport And Storage Form	Static Batteries Shall Betransported 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)					
Overslow, 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℃, 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 to2.5V	
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℃) 60±25%R.H.0.5C(10-45℃)	Charge at a very low temperature such as blew 0℃,will be get a lower capacity and reduce cycle life of the battery
	Discharge:0.2C(-15~15℃)60±25%R.H.1C(15-60C)	
Storage temperature for a long time	0-45℃60±25%R.H.	Do not storage exceed half year. Must charge once when storage for half year. Imust 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 practica 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
	Rated Power	300W	500W	1000W	1000W	1500W
	Output Voltage	110/220VC				
	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	
DC Output	Voltage Of Floating Charge	13.7V			27.4V	
	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℃				
Ambient Temperature For Operation		0-40℃				
Ambient Temperature For Storage		-25-+55℃				
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

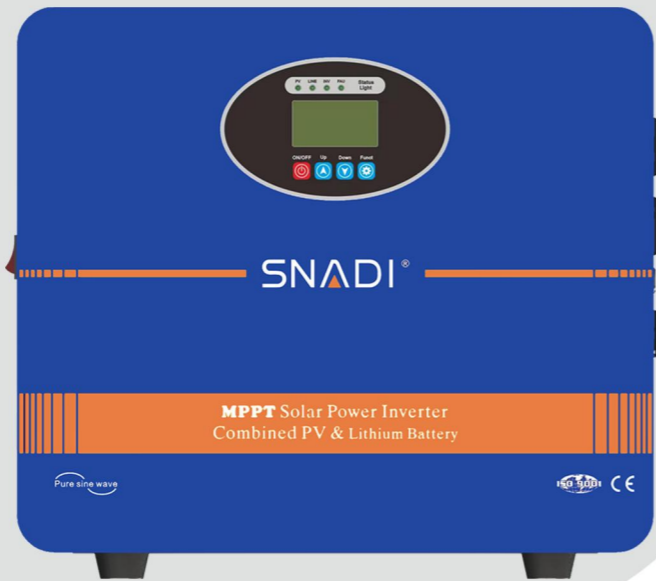
Model:		NKH-5KW	NKH-10KW
Rated Power		5000W	10000W
Mains Input	Rated Input Voltage (Settable)	208VAC/220VAC/230VAC/240VAC	
	Mains Supply Input Voltage Range	170-280VAC; 90-280VAC	
	Mains Supply Input Frequency	50Hz/60Hz(Auto detection)	
	Rated Output Voltage (settable)	208VAC/220VAC/230VAC/240VAC ±5%	
Output	Surge Power	20000VA	
	Efficiency	94%	
	Switching Time	10ms	
	Overload power	1 min@102%-110% Load, 10s@110%-130% Load, 3s@130%-150% Load,0.2s@>150% Load	
Battery And AC Charging	Battery Voltage Rating	51.2VDC	
	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		vUSB/RS232/GPRS/WIFI	
Working Environment	Humidity	5% to 95% relative humidity(non-condensing)	
	Operating Temperature Range	0℃-55℃	
	Storage Temperature	-15℃-60℃	
Dimension (L*W*H)		770*410*222.5mm	930*410*222.5mm

AL Solar Power System

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

MAIN FEATURES

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



All In One Solar Energy System

LiFePO4 Battery Inbuilt (Solar Generator)

(2KW、3KW、4KW、5KW、6KW)

MAIN FEATURES

- Combined power inverter, MPPT solar charge controller
- 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℃				
Ambient Temperature For Storage		-25 -+55℃				
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

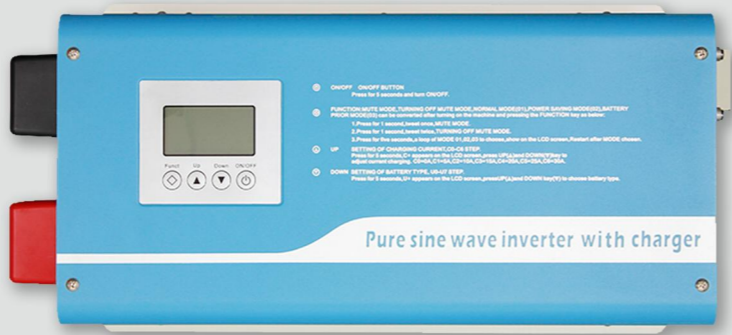
Product Specifications

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				
	Maximum Power	3200Wp				
DC Output	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 Ambien 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-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



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℃								
	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: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.

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: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						
	Low Voltage Protection	84VDC/168VDC			168VDC			
Input	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								
	Battery and mains switching	3S-5S				<4ms				
	Unbalanced voltage	<±3% <±1% (Unbalanced load voltage)								
System Specifications	Overload	120%, 20s; > 150%, 100ms				125%,20s;>150%,1s				
	Working efficiency	≥90% (load: 100%)								
	Computer communication	RS232/485 (SNMP Remote Monitoring Network Adapters)								
	Operating temperature	-10-40℃								
	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)



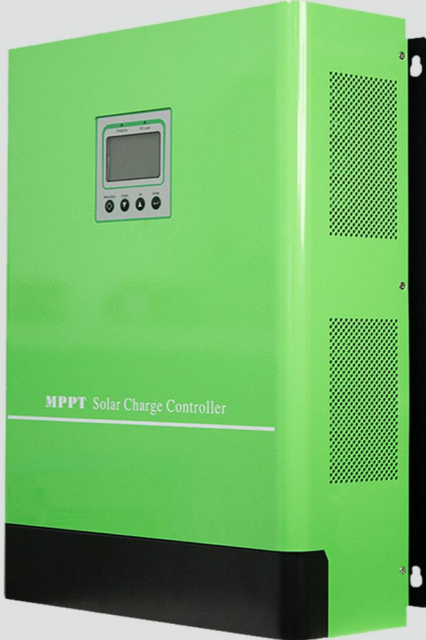
Product Specifications

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	12V/24V/48V	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					
	Humidity	0-90%RH (No condensation)					
PV Module Configuration	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



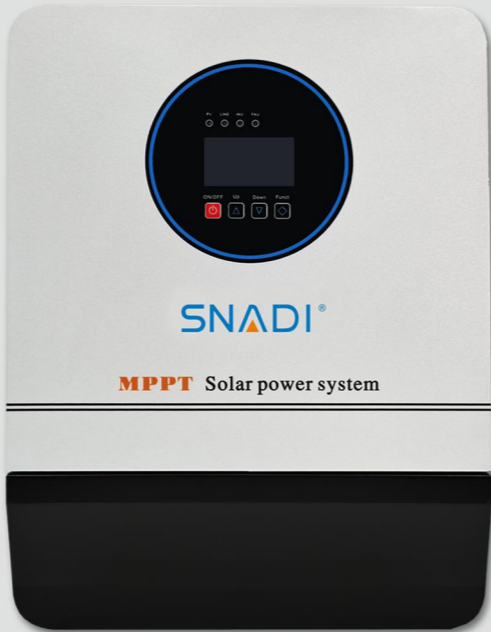
Product Specifications

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	96V System	5300W	10600W
Panel Input Power	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 module9 string, 36V module*8 string)	
	192V System	230V-420V (30V module*11 string, 36V module*10 string)	

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℃				
	Storage Ambient Temperature	-20-+50℃				
	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						

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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)			
	AC Voltage Regulation (Batt .Mode)	208VAC/220VAC/230VAC/240VAC ±5%			
	Surge Power	6KW	10KW	16KW	20KW
	Efficiency (Peak)PV to INV	97%			
	Efficiency (Peak)Battery to INV	94%			
	Transfer Time	10 ms			
Battery & AC Charge	Overlord Capacity	1min@102%-110% Load, 10s@110%-130% Load, 3s@130%-150% Load 02s@150% Load			
	Battery Voltage	24VDC	48VDC		
	Floating Charge Voltage	27VDC	54VDC		
	Overcharge Protection	32VDC	64VDC		
PV Charge	Maximum Charge Current	60A	80A	160A	
	Maximum PV Array Power	1500W	5500W	11000W	
	MPPT Range Operating Voltage	30-115VDC	120-430VDC		
	Maximum PV Array Open Circuit Voltage	145VDC	450VDC		
	Maximum Charge Current	60A	80A	160A	
AC+PV Charge	Maximum Efficiency	99%			
	Maximum Charge Current	120A	80A	160A	
Physical	Dimension D"W"H(mm)	439*320*128			640*490*152
	Net Weight(kg)	8	9.2	20	
Opera Ting 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				
	Controller Types	With maximum power point tracking (MPPT) function controller				
MPPT 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	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℃				
	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			
	Controller Types	With maximum power point tracking (MPPT) function controller			
MPPT 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			
	Unbalanced voltage	<±3% (Balancing load voltage)			
	Overload capacity	120% 20s; > 150%, 100ms			
	Operating ambient temperature	-10-40℃			
	Relative humidity	0~90% (No Condensation)			
Other	Noise	40-50dB			
	Product Size : DxWxH(mm)	635*566*1295			
Struture	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



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				
Other Data	Protection	IP65				
	Temperature	-30℃ ~ +60℃				
	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					

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:	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℃~60℃				
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				

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