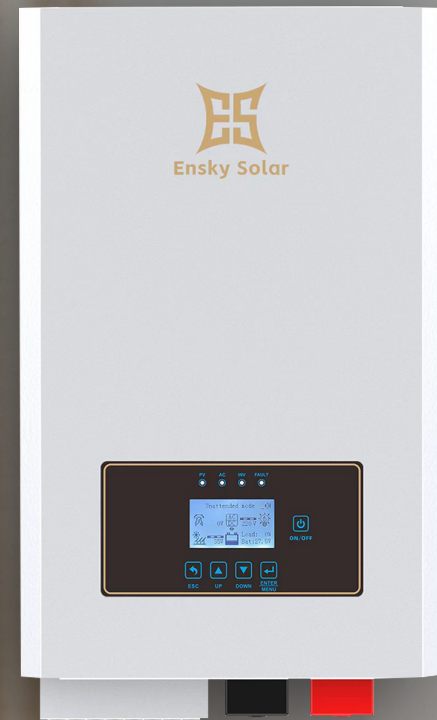


HYBRID INVERTER



Guangdong Enxinkai New Energy Technology Co., Ltd

Website: www.nxsolar.com

Email: info@nxsolar.com

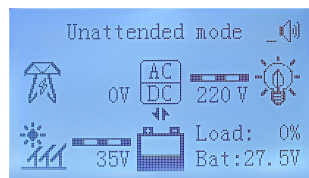
Address: No. 9, Second Industrial Zone, Dazhen Town,
Dali Town, Nanhai District, Foshan City, Guangdong Province

SINGLE PHASE HYBRID INVERTER

SK-1000W



LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



MPPT Specifications

Charging Mode		Constant Current / Floating Charge / MPPT	
Overall Unit Efficiency	12V	≥96.5%	
Photovoltaic Module Utilization	12V	≤99%	
Solar Input Open Circuit Voltage		≤135V	
Solar Input Operating Voltage		≤100V	
Maximum Charging Current		40A	
Maximum Charging Power	12V	560W	

Solar Panel Configuration Requirements

Open Circuit Voltage 43V:

Rated Voltage (V)	Rated Current (A)	PV Module Load Voltage (Recommended Value)	Open Circuit Voltage 43V				
			Max. Input voltage(V)	Optimal Number Of Series	Max. Number Of Series	Minimum Number Of Series	Number Of Parallel Groups
12V	40A	18V~100V	100V	2	2	1	Configured According To Power Consumption

Data Sheet

Model	1000W	
Capacity	Rated Power	1000W
	Peak Power	3000W
Input	Battery Voltage	12V
	DC Input Voltage	10.5-15VDC
	AC Input Voltage	165-275VAC
	AC Input Frequency	50Hz±5Hz
Output	Effectiveness	≥90%
	Output Voltage	(Inverter Mode) 220VAC±3%
	Output Frequency	(Inverter Mode) 50Hz±0.5Hz
	Output Waveform	Pure Sine Wave
	Avr Output Regulator	Output 220VAC±10%
	Avr Output Frequency	Tracking The Mains
AC Charging	Type Of Battery	SLA Battery/AGM Battery/Lithium Battery
	AC Charging Current	15A
Protection	Battery High Voltage Warning	>15VDC for 12V
	Battery High Voltage Protection	>17VDC for 12V
	Battery Low Voltage Warning	<10.5VDC for 12V
	Low Voltage Battery Shutdown	<10VDC for 12V
	Overload, High Temperature, Short Circuit Protection	Automatic Shut-down
Other	Switchover Time	≤5ms
	Display	LED+LCD
	Cooling System	Forced air cooling, intelligent speed regulation
	Operating Mode	AC Input Priority/Battery Priority/ECO Mode /Unattended mode
	Communication	RS-485
Working Environment	Temperature	0~55°C
	Humidity	0~95%(No Condensation)
Exterior	Product Size(mm)	396x294x145
	N.W.(Kg)	11

The technical specifications of this document are subject to change without any notice

Open Circuit Voltage 36V:

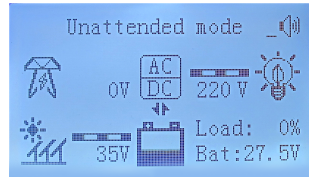
Rated Voltage (V)	Rated Current (A)	PV Module Load Voltage (Recommended Value)	Open Circuit Voltage 36V				
			Max. Input voltage(V)	Optimal Number Of Series	Max. Number Of Series	Minimum Number Of Series	Number Of Parallel Groups
12V	40A	18V~100V	100V	2	3	1	Configured According To Power Consumption

SINGLE PHASE HYBRID INVERTER

SK-2KW-10KW



● LCD DISPLAY ICONS



● BASIC SYSTEM ARCHITECTURE



MPPT Specifications

Model	2KW	3KW	3.5KW	4KW	5KW	6KW	8KW	10KW
Charging Mode	Constant Current/Floating Charge/MPPT							
Overall Unit Efficiency	12V/24V/48V	≥96.5%						
Photovoltaic Module Utilization	12V/24V/48V	≤99%						
Solar Input Open Circuit Voltage	≤175V							
Solar Input Operating Voltage	≤150V							
Maximum PV Charging Current	60A		80A			100A		

Maximum PV Charging Current	60A	80A	100A
Maximum PV Array Power	12V	840W	--
	24V	1680W	2240W
	48V	3360W	4480W

Solar Panel Configuration Requirements

Rated Voltage (V)	Rated Current (A)	PV Module Load Voltage (Recommended Value)	Open Circuit Voltage 43V				Number Of Parallel Groups
			Max. Input Voltage(V)	Optimal Number Of Series	Max. Number Of Series	Minimum Number Of Series	
12V	60A	18V~60V	100V	2	3	1	Configured According To Power Consumption
24V	60A	36V~72V	100V	2	3	1	
24V	80A	36V~72V	100V	2	3	1	
48V	60A	72V~144V	150V	3	3	2	
48V	80A	72V~144V	150V	3	3	2	
48V	100A	72V~144V	150V	3	3	2	

*The technical specifications of this document are subject to change without any notice

Data Sheet

Model	2KW	3KW	3.5KW	4KW	5KW	6KW	8KW	10KW	
Capacity	Rated Power	2KW	3KW	3.5KW	4KW	5KW	6KW	8KW	10KW
	Peak Power	6KW	9KW	10.5KW	12KW	15KW	18KW	24KW	30KW
Input	Battery Voltage	12V/24V/48V		24V/48V		48V			
	DC Input Voltage	10.5-15VDC@12V / 21-30VDC@24V / 42-60VDC@48V							
	AC Input Voltage	165-275VAC							
	AC Input Frequency	50Hz±5Hz							
Output	Effectiveness	≥85%							
	Output Voltage	(Inverter Mode) 220VAC±3%							
	Output Frequency	(Inverter Mode) 50Hz±0.5Hz							
	Output Waveform	Pure Sine Wave							
AC Charging	Type Of Battery	SLA Battery / AGM Battery / GEL Battery / Lithium Battery							
	AC Charging Current	0-35A							
Protection	Battery High Voltage Warning	>15V for 12VDC / >30V for 24VDC / >60V for 48VDC							
	Battery High Voltage Protection	>17V for 12VDC / >34V for 24VDC / >68V for 48VDC							
	Battery Low Voltage Warning	<10.5V for 12VDC / <21V for 24VDC / <42V for 48VDC							
	Low Voltage Battery Shutdown	<10V for 12VDC / <20V for 24VDC / <40V for 48VDC							
	Overload, High Temperature, Short Circuit Protection	Automatic Shutdown							
Other	Switchover	≤5ms							
	Display	LCD							
	Cooling System	Forced Air Cooling, Intelligent Speed Regulation							
	Operating Mode	AC Input Priority Mode / Battery Priority Mode / ECO Mode / Generator Mode / Unattended Mode							
	Communication	BMS / COMM							
Working Environment	Temperature	0~55°C							
	Humidity	0~95%(No Condensation)							
Exterior	Product Size(mm)	507x305x171	535x322x191	586x381x191			726x429x202		
	N.W.(Kg)	16	22	23	26	31	34.5	44.5	49

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