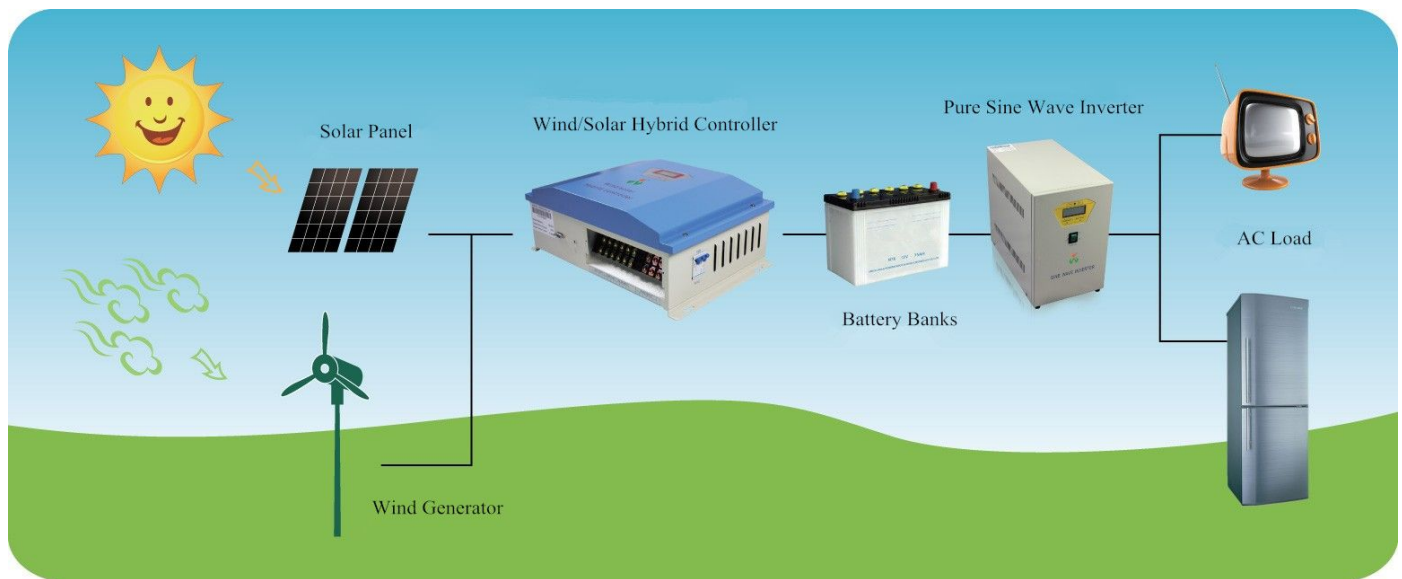


**I. PRODUCT INTRODUCTION**

The off-grid pure sine wave inverter is an intelligent device of converting DC power into stable AC power, providing effective power supply for Traffic inconvenience, the harsh environment of the mountain area, a pasturing area, border, islands and other areas without electricity. With decent appearance, easy operation, and visual indication of LCD, the inverter has automatic AC voltage stabilizing output and perfect protection function, high efficiency, and low no-load loss.

**II. SYSTEM DRAWING**



**III. MODEL SPECIFICATION**

<b>Model sample</b>	<b>WI 100 - 240 - C N 01</b>					
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Number</b>	<b>1</b>	<b>2</b>	<b>3</b>			
<b>Model Specification</b>	Part "1" refers to the pure sine wave inverter	Part "2" refers to the rated inverter capacity 30: inverter capacity 3kVA 50: inverter capacity 5kVA 100: inverter capacity 10kVA 150: inverter capacity 15kVA 200: inverter capacity 20kVA 300: inverter capacity 30kVA	Part "3" refers to Battery voltage 48: Battery voltage 48V 96: Battery voltage 96V 110: Battery voltage 110V 120: Battery voltage 120V 220: Battery voltage 220V 240: Battery voltage 240V			
<b>Number</b>	<b>4</b>	<b>5</b>	<b>6</b>			
<b>Model specification</b>	Part "4" refers to Inverter output voltage A: output three phase voltage: 220V <sub>AC</sub> B: output three phase	Part "5" refers to with or without by-pass function N: without by-pass function M: with by-pass function	Part "6" refers to output frequency 01: output frequency 50Hz 02: output frequency 60Hz			

	voltage: 240V <sub>AC</sub> C: output three phrase voltage: 380V <sub>AC</sub> D: output three phrase voltage: 400V <sub>AC</sub> E: output three phrase voltage: 415V <sub>AC</sub>		
--	--	--	--

**IV. PERFORMANCE FEATURES**

- ✧ Intelligentized, modularized, simple structure design with powerful function.
- ✧ Frequency toroidal transformer ensures that inverter has high efficiency and low no-load loss.
- ✧ Core components adopt SCM to control, which makes the circuit structure simple, and the control method and control strategy more flexible.
- ✧ Perfect protection and alarming function, thus the system has a high stability.
- ✧ LCD display function, visually display battery voltage and other status parameters.
- ✧ Pure sine wave output, compared with square wave or modified wave, has higher efficiency and higher capability of driving load.
- ✧ European CE certification.

**V. APPLICATION AREAS**

- ✧ Wind power station, photovoltaic power station
- ✧ Domestic household wind power system and photovoltaic power system
- ✧ Coastal islands, remote mountainous, border posts for regions shortage of or without electricity
- ✧ Government demonstration projects, landscape lighting project, street light project etc.
- ✧ GSM base stations, expressway and other non-residential regions

**VI. PRODUCTS DISPLAY****VII. 3KVA TECHNICAL PARAMETERS**

Product Model	WI30-48	WI30-96	WI30-120	WI30-220
Rated inverter output capacity	3 kVA	3 kVA	3 kVA	3 kVA
Rated battery voltage	48 V	96 V	120 V	220 V
Over Voltage Shutoff	68 V	136 V	170 V	312 V
Over Voltage Recovery	66 V	132 V	165 V	302 V
Under Voltage Shutoff	43.2 V	86.4 V	108 V	198 V
Under Voltage Recovery	48 V	96 V	120 V	220 V
No-load Loss	≤2.8 A	≤1.6 A	≤1.6 A	≤1.2 A
Net Weight	60 kg			
Dimensions (Lx W x H)	560×320×525 mm			
Output Wave	Pure sine wave			
Display Mode	LCD			
Cooling	Fan			
Rated Output Voltage	220/240/380/400/415 V <sub>AC</sub>			
Wave Distortion	≤4%			
Output Frequency	50/60±0.5 Hz			
Dynamic Response	5%			
Power Factor	≥0.8			
Over-load Capacity	120% 1min, 150% 10s			
Invert Efficiency	Maximum 90%			
Isolating Mode	Toroidal Transformer			

Protection Level	IP20 (Indoor)
Noise (1m)	≤40dB
Insulating Strength	1500V <sub>AC</sub> , 1min
Protection Functions	Input over voltage protection, Battery under voltage protection, Battery anti-reverse connection protection, Output overload protection, Output short circuit protection, Over temperature protection.
Ambient Temperature	-20~+55℃
Ambient Humidity	0~93%, without condensing
Working Altitude	≤4000m

**In order to serve our customers better, our company can adjust parameter configuration according to customer's requirement.**

### VIII. 5KVA TECHNICAL PARAMETERS

Product Model	WI50-48	WI50-96	WI50-120	WI50-220	WI50-240
Rated inverter output capacity	5 kVA	5 kVA	5 kVA	5 kVA	5 kVA
Rated battery voltage	48 V	96 V	120 V	220 V	240 V
Over Voltage Shutoff	68 V	136 V	170 V	312 V	340 V
Over Voltage Recovery	66 V	132 V	165 V	302 V	330 V
Under Voltage Shutoff	43.2 V	86.4 V	108 V	198 V	216 V
Under Voltage Recovery	48 V	96 V	120 V	220 V	240 V
No-load Loss	≤2.8 A	≤1.6 A	≤1.6 A	≤0.8 A	≤0.7 A
Net Weight	77 kg	68 kg			
Dimensions (Lx W x H)	500×500×725mm	560×320×525 mm			
Output Wave	Pure sine wave				
Display Mode	LCD				
Cooling	Fan				
Rated Output Voltage	220/240/380/400/415 V <sub>AC</sub>				
Wave Distortion	≤4%				
Output Frequency	50/60±0.5 Hz				
Dynamic Response	5%				
Power Factor	≥0.8				
Over-load Capacity	120% 1min, 150% 10s				
Invert Efficiency	Maximum 90%				
Isolating Mode	Toroidal Transformer				
Protection Level	IP20 (Indoor)				

Noise (1m)	≤40dB
Insulating Strength	1500V <sub>AC</sub> , 1min
Protection Functions	Input over voltage protection, Battery under voltage protection, Battery anti-reverse connection protection, Output overload protection, Output short circuit protection, Over temperature protection.
Ambient Temperature	-20~+55℃
Ambient Humidity	0~93%, without condensing
Working Altitude	≤4000m
<b>In order to serve our customers better, our company can adjust parameter configuration according to customer's requirement.</b>	

### IX. 10KVA TECHNICAL PARAMETERS

Product Model	WI100-120	WI100-220	WI100-240
Rated inverter output capacity	10 kVA	10 kVA	10 kVA
Rated battery voltage	120 V	220 V	240 V
Over Voltage Shutoff	170 V	312 V	340 V
Over Voltage Recovery	165 V	302 V	330 V
Under Voltage Shutoff	108 V	198 V	216 V
Under Voltage Recovery	120 V	220 V	240 V
No-load Loss	≤2.0 A	≤1.0 A	≤1.0 A
Net Weight	106 kg		
Dimensions (Lx W x H)	500×500×725 mm		
Output Wave	Pure sine wave		
Display Mode	LCD		
Cooling	Fan		
Rated Output Voltage	220/240/380/400/415 V <sub>AC</sub>		
Wave Distortion	≤4%		
Output Frequency	50/60±0.5 Hz		
Dynamic Response	5%		
Power Factor	≥0.8		
Over-load Capacity	120% 1min, 150% 10s		
Invert Efficiency	Maximum 90%		
Isolating Mode	Toroidal Transformer		
Protection Level	IP20 (Indoor)		
Noise (1m)	≤40dB		

Insulating Strength	1500V <sub>AC</sub> , 1min
Protection Functions	Input over voltage protection, Battery under voltage protection, Battery anti-reverse connection protection, Output overload protection, Output short circuit protection, Over temperature protection.
Ambient Temperature	-20~+55℃
Ambient Humidity	0~93%, without condensing
Working Altitude	≤4000m
<b>In order to serve our customers better, our company can adjust parameter configuration according to customer's requirement.</b>	

## X. 20KVA TECHNICAL PARAMETERS

Product Model	WI200-220	WI200-240
Rated inverter output capacity	20 kVA	20 kVA
Rated battery voltage	220 V	240 V
Over Voltage Shutoff	312 V	340 V
Over Voltage Recovery	302 V	330 V
Under Voltage Shutoff	198 V	216 V
Under Voltage Recovery	220 V	240 V
No-load Loss	≤2.0 A	≤2.0 A
Net Weight	190 kg	
Dimensions (Lx W x H)	500×500×1130mm	
Output Wave	Pure sine wave	
Display Mode	LCD	
Cooling	Fan	
Rated Output Voltage	220/240/380/400/415 V <sub>AC</sub>	
Wave Distortion	≤4%	
Output Frequency	50/60±0.5 Hz	
Dynamic Response	5%	
Power Factor	≥0.8	
Over-load Capacity	120% 1min, 150% 10s	
Invert Efficiency	Maximum 90%	
Isolating Mode	Toroidal Transformer	
Protection Level	IP20 (Indoor)	
Noise (1m)	≤40dB	
Insulating Strength	1500V <sub>AC</sub> , 1min	

Protection Functions	Input over voltage protection, Battery under voltage protection, Battery anti-reverse connection protection, Output overload protection, Output short circuit protection, Over temperature protection.
Ambient Temperature	-20~+55℃
Ambient Humidity	0~93%, without condensing
Working Altitude	≤4000m
<b>In order to serve our customers better, our company can adjust parameter configuration according to customer's requirement.</b>	

**XI. 30KVA TECHNICAL PARAMETERS**

Product Model	WI300-220	WI300-240
Rated inverter output capacity	30 kVA	30 kVA
Rated battery voltage	220 V	240 V
Over Voltage Shutoff	312 V	340 V
Over Voltage Recovery	302 V	330 V
Under Voltage Shutoff	198 V	216 V
Under Voltage Recovery	220 V	240 V
No-load Loss	≤2.2 A	≤2.2 A
Net Weight	260 kg	
Dimensions (Lx W x H)	500×500×1130 mm	
Output Wave	Pure sine wave	
Display Mode	LCD	
Cooling	Fan	
Rated Output Voltage	220/240/380/400/415 V <sub>AC</sub>	
Wave Distortion	≤4%	
Output Frequency	50/60±0.5 Hz	
Dynamic Response	5%	
Power Factor	≥0.8	
Over-load Capacity	120% 1min , 150% 10s	
Invert Efficiency	Maximum 90%	
Isolating Mode	Toroidal Transformer	
Protection Level	IP20 (Indoor)	
Noise (1m)	≤40dB	
Insulating Strength	1500V <sub>AC</sub> , 1min	
Protection Functions	Input over voltage protection, Battery under voltage protection, Battery anti-reverse connection protection, Output overload protection,	

	Output short circuit protection, Over temperature protection.
Ambient Temperature	-20~+55℃
Ambient Humidity	0~93%, without condensing
Working Altitude	≤4000m
<b>In order to serve our customers better, our company can adjust parameter configuration according to customer's requirement.</b>	

## XII. APPENDIX

<b>Optional Functions</b>			
➤	By-pass function: It will switch to the city grid automatically when the battery is under voltage, which ensures the continuity and stability of system.		
➤	English display function: It can display in English.		
➤	Optional Light-control and time-control function: inverter output can be controlled according to the light intensity, no need manual operation.		
<b>Friendly reminder: Customers, who will order the off-grid pure sine wave inverter, need to provide the following information:</b>			
➤	Rated battery voltage	➤	Whether the AC output is single phase or three phase
➤	Load peak power	➤	The load characteristic: Resistive load or Inductive load
➤	With or without by-pass function	➤	Rated output capacity and voltage & rated output frequency of the inverter

**Declare: Our company reserves the right to change products. Design and specification are subject to change without prior notice.**