



## Off-grid single-phase sine wave invert

### Product features:

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



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## Application areas:

- ♣ Stand alone wind power station, photovoltaic power station and wind/solar hybrid power station.
- ♣ Stand alone domestic household wind/solar hybrid power system, wind power system .photovoltaic power system.
- ♣ GSM base stations, expressway and other no-residential regions.
- ♣ Coastal islands, remote mountainous, border posts for regions shortage of or without electricity.
- ♣ Government demonstration projects, landscape lighting project, street light project etc.

## Warm prompts:

Customers, who will order the off-grid pure sine wave inverter, need to provide the following information:

- ♣ Rated DC input voltage.
- ♣ Whether output is single phase or three single phase
- ♣ Rated output capacity: rated output voltage, rated output frequency of the inverter.
- ♣ The load characteristic: Resistive load or Inductive load.
- ♣ With or without by-pass function: Customers should provide rated voltage and frequency of AC input if they need it.

## Technical parameters:

Model	DI503-48	DI503-96	DI503-120	DI503-220	DI503-240
Rated Output Capacity	5kVA				
Rated Battery Voltage	48V <sub>DC</sub>	96V <sub>DC</sub>	120V <sub>DC</sub>	216V <sub>DC</sub>	240V <sub>DC</sub>
Over Voltage Shutoff	68V <sub>DC</sub>	136V <sub>DC</sub>	170V <sub>DC</sub>	306V <sub>DC</sub>	340V <sub>DC</sub>
Over Voltage Recovery	66V <sub>DC</sub>	132V <sub>DC</sub>	165V <sub>DC</sub>	297V <sub>DC</sub>	330V <sub>DC</sub>
Under Voltage Shutoff	42V <sub>DC</sub>	84V <sub>DC</sub>	105V <sub>DC</sub>	189V <sub>DC</sub>	210V <sub>DC</sub>
Under Voltage Recovery	48V <sub>DC</sub>	96V <sub>DC</sub>	120V <sub>DC</sub>	216V <sub>DC</sub>	240V <sub>DC</sub>
No Load Loss	≤1A	≤0.55A	≤0.41A	≤0.2A	≤0.2A
Output Wave Form	Pure Sine Wave				
Display Mode	LCD				
Display Parameters	Battery Voltage, Status parameters				
Cooling Mode	Fan				



## DI503SERIES OF OFF-GRID SINGLE-PHASE SINE WAVE INVERTER

Rated Output Voltage	110/120/220/230/240V <sub>AC</sub>
Wave Distortion	≤4%
Output Frequency	50/60 Hz±0.05Hz
Dynamic Response	5%
Overload Capacity	120% 1min,150% 10s
Inverter Efficiency	Maximum 90%
Noise (1m)	≤40dB
Insulating Strength	1500V <sub>AC</sub> ,1min
Protection Function	Battery over voltage protection, Battery under voltage protection, Battery reverse connection protection, Output overload protection, Output short circuit protection, Overheating protection.
Working Ambient Temperature	-20~50°C
Working Altitude	≤4000m
Working Ambient Humidity	0~90%,no condensing

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

**Declare: The product has applied for patent protection, counterfeiting will be subject to legal sanctions. Our company reserves the right to change products .Design and specification are subject to change without prior notice.**



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