

DP-8KW- Pure Sine Wave Inveter

Introduction

DP series Pure Sine Wave Inverter is the one of the most advanced technology DC to AC conversion products in the world, it's suitable use for areas without electricity, providing a complete power solution for strict demand applications. With SVPWM technology it has high conversion efficiency, high instantaneous power and low losses power output pure sine wave, applying to capacitive, inductive and nonlinear mixed-load, with superior load capacity, perfect protection function: overload, short circuit, low/over battery voltage, improper operation etc, which won't cause mechanical failures. This Inverter is very suitable for solar power systems, wind power generation systems, wind and solar hybrid generation systems. The inverter can supply AC power to all kinds of electric equipment, air conditioners, electric motors, refrigerators, fluorescent lights, televisions, electric fans and other industrial power supply.

Technical Features:

- ✧ Using the sixth generation efficient IPM intelligent module from Japanese Mitsubishi, high efficiency and stable performance. It with powerful protection function, the protection for short circuit, over load, over temperature is more safe and reliable. **It's service life can up to 15 years or more.**
- ✧ Intelligentized, modularized, simple structure design easy to maintenance.
- ✧ **Two kinds of start mode: Reduction Voltage Start and Variable Frequency Start. Customers can set start mode according to the type of their load. This function is very convenient for users and also reduce frequency converter's usage, which reduced the cost of equipment investment, easy to connect wires and control.**
- ✧ The output frequency can be setting via LCD panel, it's very convenient for customer.
- ✧ The output voltage can be set between -40 % to +20 % of rated voltage. And the output voltage is very accuracy $\pm 1\%$.
- ✧ The DC input voltage range can be set. Over-voltage point, under-voltage point, over-voltage recovery point, under-voltage recovery point all can be setting via the LCD panel.
- ✧ Pure sine wave output. With good dynamic response less than 50MS, waveform distortion rate smaller, higher conversion efficiency and stable output voltage.
- ✧ Low frequency transformer which ensure the DC busbar and AC busbar are completely isolated to avoid interference.
- ✧ Wide input voltage can be set according to customer's requirement. Input voltage range can be selected from 100-400V, 200-600V or 450-800V, suitable for solar/wind system without backup batteries, it can save many cost and maximization use the solar/wind energy.
- ✧ **Using SVPWM space vector algorithms, high conversion efficiency, high instantaneous power and low losses conversion efficiency up to 94%.**
- ✧ Powerful data display function. LCD can display the DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code display.
- ✧ European CE (EMC, LVD) certificate, accredited by Australian CEC, ERAC energy network.

[Optional]

- ✧ **RS485 remote monitoring;**
- ✧ **AC bypass complementary function;**



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Technical Parameters

DP-8KW

| Model | DP-8KW |
|---|--|
| Isolation mode | Low Frequency Transformer |
| Battery Input | |
| Rated voltage (Vdc) | 48V |
| Rated current (A) | 167A |
| Input voltage range (Vdc) | 40~70V |
| AC Output | |
| Rated power (Kw) | 8KW |
| Rated voltage | 220VAC |
| Output phases | Single phase |
| Rated current (A) | 36.5A |
| Output frequency | 50Hz ±0.05 |
| Waveform | Pure sine wave |
| Voltage accuracy | Load balancing≤1%、Unbalanced load≤5% |
| Waveform distortion rate (THD) | Linear load≤2%、Nonlinear load≤3% |
| Dynamic Response | 5%、≤50ms (load 0~100%) |
| Power Factor (PF) | 0.95 |
| Inverter Efficiency | >93% |
| Electrical insulation properties | 2000Vac、1 Minute |
| Protection Function | |
| Overload Ability | 150%、10s |
| Protection | Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc. |
| Display | LCD |
| Communication interface (optional) | RS485 (A、B) |
| Method of working | Working continuously |
| Cooling method | Fan cooling |
| Short-circuit protection | No automatic recovery, need to restart the machine |
| Working Environment & Mechanical dimension | |
| Degree of protection | IP20 (indoor) |
| Working Altitude (m) | ≤3000m |
| Working temperature (°C) | -15~+50°C |
| relative humidity (°C) | -25~+85°C |
| Noise (1 meter) | ≤50dB |
| Vertical type: (W x D x H) | 550×550×860mm |
| Reference weight (Kg) | 90Kg |

Our company can adjust parameter configuration according to user's requirement.