

Title: High power inverter reactor

Generated on: 2026-08-23 19:30:38

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What is reactor AC for inverter?

Reactor AC for inverter is installed next to the inverter between the inverter and water pump. The drive output reactors can smooth filter, reduce motor noise and help prolong the life of the water pump; reduce the leakage current caused by the output higher harmonic, and protect the power switch devices in the inverter.

What types of reactors do we design and manufacture?

We have spent decades designing and manufacturing: line reactors for filtering, reactors for PWM systems, reactors for smoothing, reactors for damping and reactors for static reactive energy compensation. Over the years we have acquired great experience in designing and manufacturing reactors with: iron cores, air cores and split cores.

What is a network-side filtering reactor?

They are used to filter the high-frequency ripple caused by the inverter's PWM, smoothing the voltage wave at its output. We manufacture a wide range of network-side filtering reactors designed to filter the high-frequency ripple caused by the inverter's PWM, smoothing the voltage wave at its output. What benefits do our reactors offer?

What is the main function of the output reactor?

The main function of the output reactor is to compensate for the influence of long-line (50-200m) distributed capacitance, suppress output harmonic currents, increase output high-frequency impedance, effectively suppress DV/DT and reduce high-frequency leakage current, thereby protecting the inverter and reducing The effect of equipment noise.

What is a single phase DC reactor?

The single-phase DC reactor is mainly used between the DC link and the inverter link of the frequency conversion system. The main purpose is to limit the AC component superimposed on the DC current to a certain value.

What is the main function of a three-phase output reactor?

The main function of the three-phase output reactor is to compensate for the influence of long-line distributed capacitance and to suppress the output harmonic current, increase the output high-frequency impedance, and play a role in protecting the inverter.

In modern industrial production, INVERTERS, as key equipment for motor speed regulation and energy

High power inverter reactor

A clamp circuit using nonlinear reactors is proposed for use with high-power inverters. For stable inverter operation under all typical operation conditions, the cores have ...

For small-power INVERTERs: Connecting an economical "three-phase reactor" made of an XD1 capacitive inrush current suppressor in series ...

The reactors that match the inverter are generally divided into two types: AC Reactors (input reactor, output reactor) and DC reactor. In actual applications, ...

The series of high-voltage iron-core dry-type series reactors are used in power systems varying from 6kV and 35kV. This series of reactors is ...

Solar inverters with high voltage, large current, and high power are becoming increasingly common. This is done to increase power generation efficiency ...

The reactor is connected between the power supply and the inverter, which can limit the current impact caused by the sudden change of the grid voltage and the operating ...

This can extend the service life of the motor and reduce the frequency of maintenance and replacement. Protect the power grid and other electrical equipment The ...

In this paper the line reactor design for parallel connection of high power inverters with interleaved carriers is presented. Based on state of the art interleaving reactors ...

Pain Point: Is your solar pump system facing instability or overheating issues? If you're experiencing frequent power surges, voltage ...

Meta Description: Discover how photovoltaic inverter reactors optimize solar energy systems, improve grid stability, and reduce harmonics. Learn key benefits, industry trends, and real ...

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