

SolarTech Power Solutions

Disassembly principle of communication base station inverter equipment



Overview

Is Benning responsible for damage caused by a faulty inverter system?

BENNING takes no responsibility for consequential damage caused by work incorrectly carried out on the inverter system. A proper earth connection must be ensured before the mains is connected! This inverter complies with inverter Class 3. This is a product for commercial and industrial use in the second environment.

How does a bypass inverter work?

With the detection of an undervoltage and overcurrent on the load, the system switches to bypass. The high bypass overload capacity (1000% for 8 ms.) helps to clear the load fuse. If bypass is not available, the system stays on inverter and delivers 2 times nominal current for four seconds before switching off.

How does an inverter system work?

The inverter system is controlled and monitored by digital signal processors (DSP), which are programmed with appropriate algorithms. Individual components communicate with one another by means of a CAN-BUS system (Controller Area Network), which guarantees a high level of immunity against interference.

How do inverter modules work?

All inverter modules operate in parallel. They are designed for continuous duty on line, load sharing, and are phase synchronized with each other. The load sharing and phase synchronizing are achieved by digital communications between modules. Usually the first module put into operation becomes the master module for communication purposes.

Where are the inverter modules located?

They are positioned as shown in Figure 6, downstream from the MBS in the

primary cabinet. A moulded case three phase circuit breaker, rated 400A, will be provided when requested by customers who wish to have a manual means to disconnect the system output from their loads within the inverter system. All inverter modules operate in parallel.

What is a modular static inverter system?

The INVERTRONIC MODULAR static inverter system is a very high power density, high reliability AC power supply for powering critical applications in the telecommunication and industrial control fields. Each module is a complete three phase inverter with built-in SBS. With this unique topology, the system is truly modular and scalable.

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