ContainerPower Energy Solutions

How to debug the inverter of the communication base station in the driving test

Overview

Find "Control Panel" under "Debug", activate debugging, and in the pop-up dialog box, set the debugging time you need in "Monitoring Time". Note that the unit is MS. Finally, click "Apply" to activate the control panel. Since there is no towing motor in this debugging, there is no current display.How does traction inverter testing work?

At this stage, the traction inverter is evaluated to ensure it operates seamlessly with the motor, battery, and other subsystems. Functional testing under various load conditions simulates real-world scenarios to identify potential weaknesses early in the process.

What are the required parameters for a PU inverter?

The following describes the settings of the required parameters: Pr.117 (PU communication station number) and Pr.340 (communication startup mode selection). Communication parameter settings Pr.117 (PU communication station number) setting Turn and set to P.117 (Pr.117). •First inverter: 0 •Second inverter: 1.

What information is stored on inverter status read through communication?

The information on inverter status read through communication is stored to M devices. The output frequency is transferred to another data register. D20: Information on inverter status monitor (extended) D21: Output frequency (rotation speed) D50 monitor value M100Inverter running Forward rotation Reverse rotation Alarm occurrence.

What modules are used in inverter-specific testing?

For inverter-specific testing, solutions such as high voltage variable resistor modules and isolated analog output modules ensure safe and accurate signal generation. Additionally, resolver simulator modules provide essential motor position feedback, critical for advanced testing scenarios.

What is a BEV traction inverter?

Among the key components that enable the efficient functioning of BEVs is the automotive traction inverter. Often overlooked compared to the battery or electric motor, the traction inverter plays a pivotal role in ensuring vehicle performance, energy efficiency, and reliability.

What if data communications between programmable controller and inverter are not performed?

If data communications between the programmable controller and the inverter are not performed when the example program is executed, an error occurs. Turning ON the forward rotation command input Inverter Programmable controller <Checking communication status with LEDs> Programmable controller operation Inverter operation

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