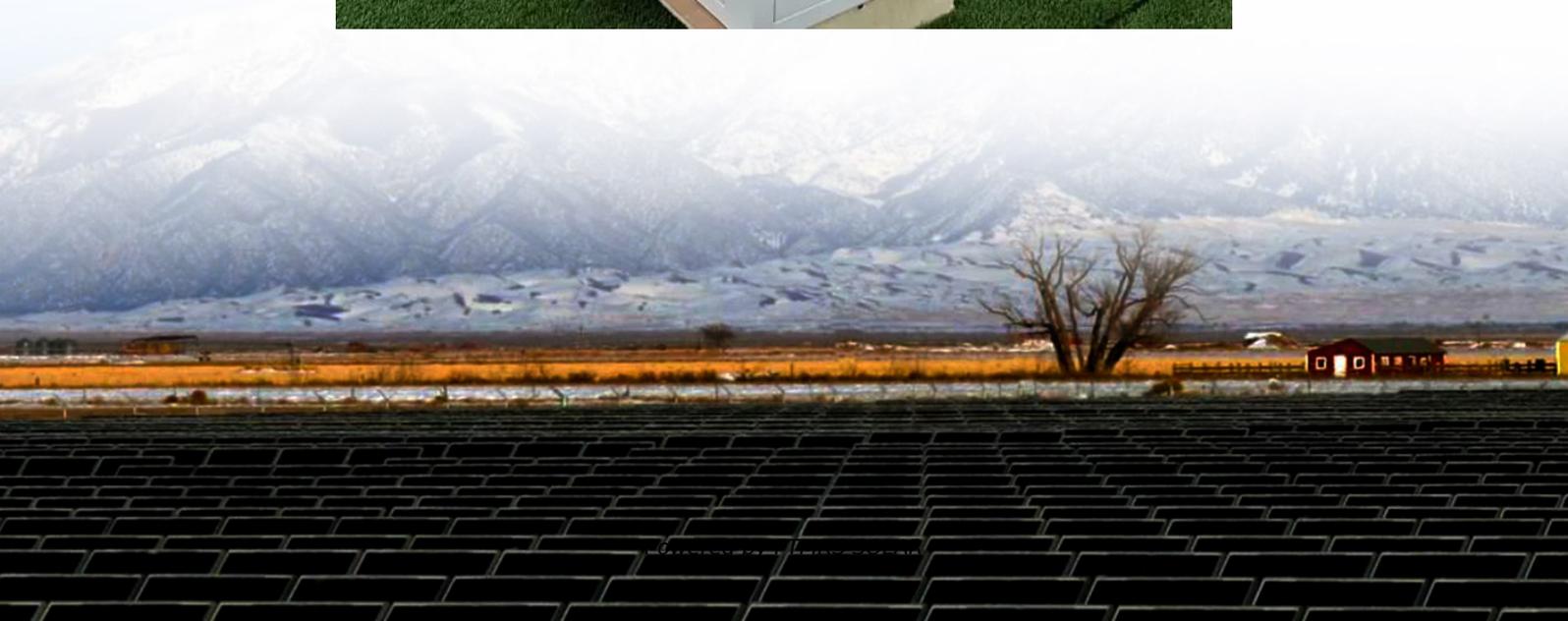


Inverter stop voltage





Overview

What is a safe stop in an inverter?

After this, the drive is in a defined safe stop. Inverter Enable is synonymous with "Safe Torque Off (STO)" according to IEC 61800-5-2:2007. This torque-free state is automatically entered when errors are detected and is therefore the defined safe state of the drive.

What is inverter enable function?

With the Inverter Enable function (IE), you can bring drives to a defined safe stop. In the sense of the relevant standards, the requirements of the stop category 0 (Safe Torque Off, STO) and stop category 1 (Safe Stop 1, SS1) can be met. Both categories lead to a torque-free motor while SS1 takes this state after a predefined time.

How does an inverter control a motor?

An inverter uses this feature to freely control the speed and torque of a motor. This type of control, in which the frequency and voltage are freely set, is called pulse width modulation, or PWM. The inverter first converts the input AC power to DC power and again creates AC power from the converted DC power using PWM control.

How do I disable the inverter enable function?

Proceed as follows to disable the Inverter Enable function: Supply the /STO_A or /STO_B input with 24 Vdc to deactivate the Inverter Enable function. The axes without Inverter Enable function become torque-free via the mains contactor and come to a stop. For more information, refer to Stop Category 0.



Inverter stop voltage

Braking and Stopping , iKnow Knowledge Base

If is necessary to stop the load quickly, or if a controlled stop is needed, then a braking resistor can be fitted (on most drives) which dissipates the regenerative energy (see article 14) But in ...

9. Inverter Settings

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9. Inverter Settings

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