

# 10kV bus voltage exceeds the upper limit



## Overview

The DC bus has exceeded the maximum value. Reduce the mechanical load and/or rate of deceleration. The DC bus overvoltage fault, also called a DC bus error or simply an overvoltage fault, is among the most common faults on an AC variable frequency drive. Because it's so common, some newer drives try to assist with locating the issue by providing more information about what the drive was doing. The DC bus voltage is too high. Thanks Engr Raja Haroon Rasheed Posted: 2020-07-03 01:39 PM. Last Modified: . Regenerative drives are built to handle excess energy, but when voltage levels spike beyond safe limits, your drive trips to protect itself. Maybe it only happens during high deceleration?

Or maybe it's completely random?

Either way, production stops, and downtime starts adding up fast. PV input voltage in Datasheet is not exceeded. If the measured voltage value is close to the maximum MPPT range threshold, it is recommended to reduce the number of photovoltaic panels in the corresponding sting.



## Article Content

Sep 17, 2025

what is meant by "DC bus overvoltage issue" in SRT5kXLI and its ...

The DC bus voltage is sampled in A/D interrupt (4-point running average). If the average DC bus voltage is greater than 460V, the DC bus overvoltage fault will be generated.

Feb 11, 2026

Fault 10110

If the measurements do not match, the components that are used for DC bus voltage feedback sensing can be damaged or incorrect. Replace the power supply, power control, and power ...

Apr 10, 2026

OV-BUS: DC bus overvoltage

This guide explains how to troubleshoot a "DC Bus Over Voltage" error on an Autarco inverter. This error indicates that the voltage in the inverter's DC bus, which connects to the solar panels, has ...

Mar 11, 2026

DC Bus Overvoltage White Paper

If the input line voltages are within specification and the DC bus voltage is still high when not running, this could be a harmonics issue with the supply power.

May 30, 2026

Managing VFD Overvoltage Faults During Deceleration ...

If the system inertia is large (e.g. big fan impellers, pump flywheels) or the decel time is very short, the bus voltage climbs until the drive's protection limit is exceeded.

Aug 12, 2025

Bus Voltage Fault

Use a multimeter to measure the voltage at each MPPT, make sure that the Max. PV input voltage in Datasheet is not exceeded. If the measured voltage value is close to the maximum MPPT range ...

Jul 14, 2025

dc bus overvoltage fault yaskawa – Yaskawa drives – click2electro ...

A DC bus overvoltage fault in your Yaskawa drive indicates that the voltage in the internal DC bus has exceeded the safe operating limit. This can cause damage to the drive ...

Mar 10, 2026

### Troubleshooting VFD Problems - Overvoltage Fault

The resulting voltage rise on the low voltage bus could trip or even damage the VFD on overvoltage. Remember that the overvoltage protection on drives is based on the measured DC bus ...

Jul 23, 2025

### Regenerative Drive Failures: How to Fix DC Bus Overvoltage

If the DC bus keeps spiking, something in the system is pushing too much power back into the drive. The real question is, where's it coming from and how do you stop it?

Apr 26, 2026

### 8108 DC bus overvoltage

This diagnostic message is triggered if the DC bus voltage exceeds the maximum voltage of the device. In the Lexium 52, Lexium 62 and Lexium 62 ILM the maximum voltage of the device and the ...

Dec 25, 2025

what is meant by "DC bus overvoltage issue" in ...

The DC bus voltage is sampled in A/D interrupt (4-point running average). If the average DC bus voltage is greater than 460V, the DC bus ...

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