easYgen-3000XT Compliance with EN 50549-1/2

Justin Schneider - 2026-07-27 - compliance

This article provides an overview of the easYgen-3000XT controller's compliance with EN 50549-1/2 standards, which govern the connection of generating plants to low-voltage (LV) and medium-voltage (MV) distribution networks. The easYgen-3000XT is designed for synchronous generators and meets most of the requirements outlined in these standards. However, certain clauses require external measures or parameter adjustments for full compliance at the system level.

Key details include:

- **Compliant Parameters:** The controller meets requirements for operating range, immunity to disturbances, power response to voltage and frequency changes, and interface protection.
- **Partial Compliance:** Some controller settings slightly deviate from the standard but are functionally equivalent for secure operation.
- **Non-Compliant Features:** Specific functionalities, such as phase jump immunity, underfrequency response, and narrow frequency band switching, are not supported.

The article also highlights differences between LV (EN 50549-1) and MV (EN 50549-2) requirements, with areas of non-compliance for MV applications. For detailed technical specifications, compliance tables, and recommendations, refer to the attached PDF.