



Manufacturer's Declaration of Conformity

Subject: Compliance of Q3 ENERGIE GmbH & Co. KG Standard Generator Connection Boxes (GAK) with DIN VDE 0100-712

We hereby declare that the standard Generator Connection Boxes (GAK) manufactured by Q3 ENERGIE GmbH & Co. KG comply with the requirements of DIN VDE 0100-712, which sets the standards for photovoltaic (PV) power supply systems.

1. Compliance with DIN VDE 0100-712 (IEC 60364-7-712)

The GAKs are designed and manufactured in accordance with the requirements outlined in DIN VDE 0100-712, which is harmonized with IEC 60364-7-712. The relevant aspects concerning surge protection and enclosure protection are detailed below.

2. Surge Protection

- The integrated Surge Protection Device (SPD) complies with EN 50539 and IEC 61643-31:2018.
- Certification has been confirmed by TÜV Rheinland and the original equipment manufacturer (OEM) specifications.
- The SPD effectively protects the PV system by suppressing voltage surges caused by atmospheric discharges or switching operations, ensuring system safety in compliance with DIN VDE 0100-712.

3. Enclosure Protection

- The enclosure used in the GAKs complies with EN 62208:2011, ensuring suitability for electrical installations.
- The enclosure meets IK08 impact resistance, as per DIN EN 50102 (VDE 0470-100).
- The IP rating of the enclosure is IP66/IP67, as confirmed by the manufacturer ENSTO, providing adequate protection against dust and water ingress.
- These specifications meet the environmental and mechanical protection requirements of DIN VDE 0100-712, ensuring long-term durability in PV applications.

4. Conclusion

Based on the verification and compliance of the components used, Q3 ENERGIE GmbH & Co. KG confirms that its standard Generator Connection Boxes (GAKs) fulfill the requirements set forth in DIN VDE 0100-712, ensuring safe and reliable operation within photovoltaic power supply systems.

This declaration is issued under the sole responsibility of Q3 ENERGIE GmbH & Co. KG.

Issued by:

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