

Leakage Current Protection Device Immunity Declaration

According to the regulation NEN 1010:2015, 712.530.3.4 Devices for earth leakage protection, which is mandatory for a PV solar system that where a residual current device is used for the protection of the PV-AC supply chain, this device for earth leakage protection must be of type B according to NEN-EN-IEC 62423, unless:

- the inverter provides at least a single separation between the AC side and the DC side,
- the installation provides at least a single separation between the inverter and the earth leakage protection device by means of separate windings of a transformer or
- according to a manufacturer's declaration, the inverter does not need a type B residual-current device.

The APsystems microinverters use a triple insulated High Frequency isolation transformer between the AC side and DC side. The High Frequency transformer provides galvanic isolation between the DC and AC outputs. When the AC relays open, the DC is isolated from AC. The High Frequency transformer is also triple insulated providing reinforced isolation.

The APsystems microinverters provide built-in monitoring DC Current Injection (DCI). The built-in relay will trip when DCI exceeds the set threshold. This design simplifies field installation and meets the requirements.

Signature:



Date:

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