



Wels, November 19th 2020

FRONIUS GEN24 - DC SWITCH DISCONNECTOR COMPLIANCE

Fronius International GmbH

hereby declare the below listed inverters PCE integrated "load breaking" DC switch-disconnector compliance to *AS/NZS 5033:2014, incl. Amd 1 & Amd 2:2018 - Installation and safety requirements for photovoltaic (PV) arrays* that align with the requirements of:

Clause 4.4.1.2 (c) A load break disconnecter located in the same external enclosure as the other components of the PCE. With the load break disconnecter in the off position there shall be no risk of electrical hazards when any PCE external enclosure cover is removed for repair or replacement of other components of the PCE.

The PCE Isolator is a pre-configured, installer non-configurable switch, where only one side is connected to installer connected cables.

The following inverter series are covered by this declaration:

- / **Fronius Primo GEN24 (Plus) series** (3.0 – 6.0)
- / **Fronius Symo GEN24 (Plus) series** (6.0 – 10.0)

The PCE integrated switch disconnectors are all certified to **IEC 60947.3:2015 & AS 60947.3:2018**, of DC-PV2 utilization category, including temperature-rise with solar effects (60°C ambient) where $I_{(make)}$ and $I_{c(break)}$ are 4 times I_e (rated operational current). All models of the PCE integrated DC switch disconnecter are also **Level 3** (declared article) compliant switches and listed on the **EESS/ERAC** database.

As per **AS/NZS 5033:2014 Amd 2:2018**, Clause 4.3.5.2 (a, c, d, e, f, g, h, i, j/iv/A, k), Fronius confirms that the inverter integrated DC switch-disconnector is capable of interrupting the maximum rated PV array normal and fault current, as long as the sizing limits of the inverter (I_{sc_max} , P_{pv_max} , U_{dc_max}) stated in the datasheet are adhered to.

Due to the above compliance, an additional DC switch adjacent to the Fronius GEN24 Primo & Symo series inverters (PCEs) is not required in the installation.

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