



Wels, July 1<sup>st</sup> 2019

## FRONIUS SNAPINVERTER - 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 (b) A load break disconnecter that is mechanically interlocked with a replaceable module of the PCE, and allows for removal of the module without risk of electrical hazards.

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

The following inverter series are covered by this declaration:

- / **Fronius Galvo series** (1.5.1 – 3.1-1)
- / **Fronius Primo series** (3.0-1 – 8.2-1)
- / **Fronius Symo Hybrid series** (3.0-3-S – 5.0-3-S)
- / **Fronius Symo series** (3.0-3-M – 20.0-3-M)
- / **Fronius ECO series** (25.0-3-S – 27.0-3-S)

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  $I_{c(break)}$  is 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 Galvo, Primo, Symo & Eco inverters (PCEs) is not required in the installation.

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