

DC-SWITCH-DISCONNECTORS DECLARATION for Australia

Hereby confirms that this inverter's build-in DC switches comply with the requirements of AS/NZS 5033:2014 Incorporating Amd1 & Amd2 2018 - Installation and safety requirements for photovoltaic (PV) arrays at 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 switches are certificated to AS 60947.3:2018 and have been listed on the EESS/ERAC database (Level3).

In addition, Sungrow build-in DC switches comply with Clause 4.3.5.2(a, c, d, e, f, g, h, i, j/iv/A, k) in AS/NZS 5033:2014 Incorporating Amd1 & Amd2 2018:

(a) be rated to interrupt full load and prospective fault currents from the PV array, and any other connected power sources such as batteries, generators and the grid if present;

(c) interrupt all live conductors simultaneously;

(d) be capable of being secured in the open position;

(e) have utilization category DC-PV2;

(f) be an independent manual operation;

(g) have at least one pole per polarity;

(h) be rated for d.c. use;

(i) have a voltage rating equal to or greater than the PV array maximum voltage in accordance with Clause 4.2;

(j/iv/A) For PCE integrated disconnectors, I_c rated operational current and $I_{(make)}$ and $I_{(break)}$ rated current shall be rated such that the disconnecter is capable of interrupting the maximum rated PV array normal and fault current as specified in the PCE installation instructions.

(k) not be polarity sensitive.

Due to the above compliance, an adjacent and physically separate load break disconnecter is not required in the installation.