



RPI H5A_222 Internal DC isolator Compliance Statement

V1.0 - 25/3/2020

Delta Electronics Australia hereby confirms that the internal DC switch disconnecter installed within the H5A_222 (Model: Santon XBHP+3310/6 – wired in combined negative pole configuration) is compliant with the following clauses of AS5033:2014 amendments A1 and A2 for a PV array switch disconnecter installed within the same external enclosure as other components of the PCE:

AS 5033:2014 amendment A1 Clause 4.4.1.2 part c)

If the cover is removed for repair or replacement of the PCE, if the load break disconnecter is in the off position, there is no exposure to live parts within the inverter. Shielding is provided to protect from exposure to live parts on the PV array side of the switch disconnecter within the PCE enclosure.

AS 5033:2014 amendment A2 Clause 4.3.5.1 and 4.3.5.2

According to AS60947.3:2018 utilization category DC-PV2, if the PCE is installed in shaded outdoor locations, the rated operational current (I_e) and voltage (U_e) ratings are suitable to operate at (or within) the maximum DC voltage and maximum short circuit current limits shown on the H5A_222 datasheet. The I_{make} and $I_{c-break}$ ratings of a single pole (positive or negative) of each MPPT are greater than the maximum open circuit voltage and short circuit current limits given on the H5A_222 datasheet for non-separated inverters in compliance with AS5033:2014 appendix B5.

Switch disconnecter ratings according to AS60947.3:2018 utilization category DC-PV2 are given below and must be observed when designing the PV array for the H5A_222.

Parameter	Value
Ambient temperature	40°C – shaded outdoor locations
Rated Operational current - I_e	15 Amps DC (per MPPT) @ 600.0V
Rated Current - I_{make} and $I_{c-break}$	15 Amps DC (per MPPT) @ 600.0V
Rated Voltage - U_e	600.0 VDC

David Leal

Delta Electronics Australia Country Manager