

TN021.1 – Sonnen eco 8 AC Isolation / Connection Requirements

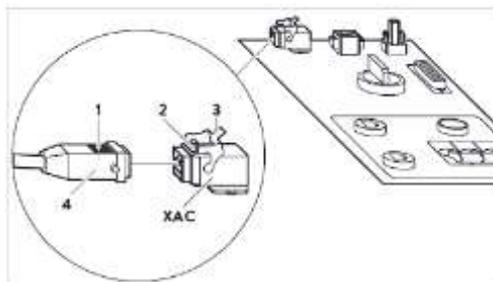
The connection to the main switch board of the sonnen eco 8 series systems is made via an AC socket.

AS/NSZ 4777.1:2016 section 4.5 states that:

A labelled isolation device, able to be secured in the open position, shall be provided between any energy source and the inverter. This device shall comply with the requirements of devices for isolation and switching in AS/NZS 3000 and be capable of safely breaking voltage and current under both normal and fault conditions.

The isolation device shall be located adjacent to the inverter energy source port and be readily available unless the energy storage and the inverter are physically integral, in which case the requirements of AS 62040.1.1 shall be adhered to. Where there are multiple inverter energy source ports, each port shall have an isolator for each connected energy source.

The following is the illustration of the permissible isolation device supplied and fitted as part of the sonnen eco 8/9 series products as detailed in AS/NZS 4777.1:2016



Additionally, section 3.4.3 of AS/NZS 4777.1:2016 states that:

Where the inverter is not adjacent to the switchboard to which it is connected, there shall be a labelled isolating switch adjacent to the inverter in addition to the main switch (inverter supply) installed in the switchboard. This isolating switch adjacent to the inverter shall be readily available. Isolation switches shall be capable of being secured in the open position. For an IES comprised of a single inverter or group of inverters with capacity of no more than 5 kVA per phase, see Clause 5.5.2.

The isolating device shall not be located within the operational portion of the inverter, so that if the inverter needs to be removed from service, the isolation device remains in place.

It is therefore the recommendation of sonnen Australia that an adjacent AC isolator compliant to the said standards be installed as a matter of good practice.

If you have any further questions or require support or assistance, please contact us at support@sonnen.com.au.

Yours faithfully,



James Sturch
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