

## Application Note: 3Ph Home Hub Battery DC Cable Management

Australia – Nov 2025

This application note refers to the physical integration between the SolarEdge Home Hub Universal Three Phase Inverter, for Australia, SE10K-RWB48 and the SolarEdge Home Three Phase Battery, for Australia BAT-05K48, via the 'Battery to Inverter' cable kit IAC-RBAT-5KCINV-01.

### Overview:

This battery-to-inverter cable set kit IAC-RBAT-5KCINV-01, consists of 260cm DC cables.

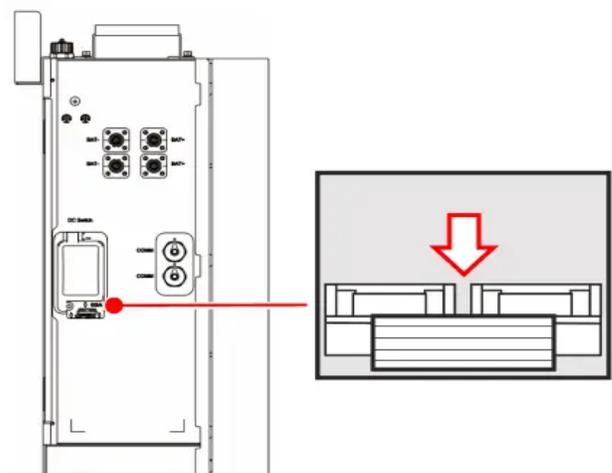


Installation of the SolarEdge Home Hub Universal Three Phase Inverter, for Australia, SE10K-RWB48 and the SolarEdge Home Three Phase Battery, for Australia BAT-05K48, fall under section 5 of AS/NZS 5139:2019 for pre-assembled battery systems.

AS/NZS 5139:2019, section 5.3.1.3.7: Location of isolation devices states that 'where the cables connecting the pre-assembled battery system to the PCE are greater than 2m in length, an isolating device shall be installed at both the pre-assembled battery system and PCE'.

Each battery module contains its own 125A double-pole DC Isolator.

As there is no in-built DC isolator at the input connection of the SolarEdge Home Hub Universal Three Phase Inverter, when using the IAC-RBAT-5KCINV-01 cable kit it will either require a reduction in length of the DC cables to 2m, or insertion of a 125A 60Vdc double-pole isolator



### Option 1: Cable Reduction

To fall within the requirements of AS/NZS 5139:2019, section 5.3.1.3.7, the DC cables of the Battery to Inverter cable kit IAC-RBAT-5KCINV-01 will need to be reduced to 2m in length.

As part of the bill of materials of the SolarEdge Home Hub Universal Three Phase Inverter, for Australia, SE10K-RWB48, there is a spare pair of terminal lugs with the DC terminal cap kit.

1. Reduce the length of each DC cable by approximately 60cm, so that the total length does not exceed 2m.
2. Strip back 18mm of insulation.
3. Slide heat shrink insulation onto each cable.
4. With the appropriate tool crimp the terminal lugs onto each cable.
5. Shrink the heat shrink insulation over the cable/ terminal ends.



### Option 2: Additional DC Isolation

To fall within the requirements of AS/NZS 5139:2019, section 5.3.1.3.7, when using the DC cables of the Battery to Inverter cable kit IAC-RBAT-5KCINV-01, a DC isolator will need to be installed adjacent to the inverter.

For this solution, the DC cables will need to be cut and wired to a dual-pole isolator, rated at 60Vdc and 125A. Note that the cable CSA is 35mm.

1. Mount the DC isolator adjacent to the inverter
2. Cut the DC cable as required
3. Connect to the DC isolator.

