



INSTRUCTIONS

AC Board – Sigenergy HYB Bypass DB – Single

SKUs: ACB-SHB11 & ACB-SHB12

Please see below steps to install your board:

1. Connect your incoming cables (grid, inverter grid, backup & inverter backup).
 - a. Please refer to the diagram overleaf and labels on the board. Note the spreader tags included on the bypass switch – the cables from the inverter must be dual lugged here.
 - b. Torque specs:
 - i. MCCB terminations: 8Nm with 6mm Hex key.
 - ii. Spreader tag terminations: 40Nm M10 Hex nuts.
2. Connect the I/O cables.
 - a. Two dry cables come from the bypass auxiliary switch and terminate at the top of the board in 2.5mm² terminals. A twisted pair of cable must be wired from these terminals to the inverter IO terminals 9 and 10.

Polarity does not matter.

Terminals are wired as open circuit when bypass switch is OFF

Notes

- **Enclosure:** Powder coated grey, 800H 600W 250D, IP66, IK10, lockable outer door, IP2X inner door, approx. 53kg.
- **If you are wiring $\geq 95\text{mm}^2$,** you may require circuit breaker or spreader tags for the MCCB's and E&N bars. We can design this to order if needed.
- **Neutral connections:** There are 2 neutral bars, one for the grid-side of the installation and one for the backup side of the installation. With the bypass open, the inverter will establish its own E-N link for correct operation of the backup-side earthing network and compliance with AS/NZS 3000. When the bypass is closed, the 2 neutral bars are connected so the backside of the installation can use the MSB's MEN link. Do not change from the default neutral commissioning of the inverter.
- **DO NOT:** close the bypass switch while the system is in backup mode.
- **See overleaf for a diagram of the board.**

