

SH5K Series - Battery Reverse Polarity

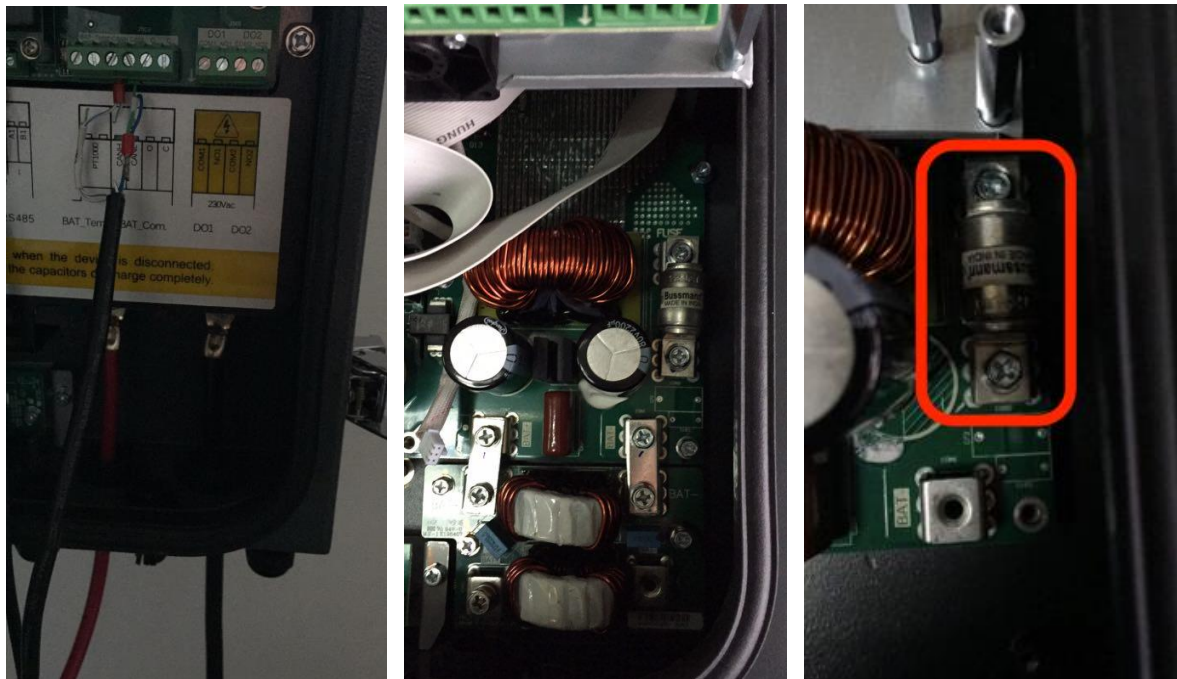
Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

If the battery is connected reverse polarity, the internal fuse will probably blow, and the auxiliary power circuit can be damaged. The inverter will not turn on when the PV is OFF. This document uses an SH5K Plus inverter as an example for explanation.

Always use colour coded heatshrink when making your battery cables.

Disconnect all sources (PV, Battery DC, and AC) and check the fuse with a multimeter.



To check if the fuse is blown or not, an electrical continuity test between the two ends of the fuse can be conducted.



Set the multimeter to the continuity mode and place each probe on each end. If the multimeter beeps, there is continuity in the fuse, and it is OK. However, if there is no beep and a high resistance is shown, it indicates that the fuse is blown and will need replacement.

If the multimeter does not have a continuity mode, **the ohmmeter mode can be used as an alternative**. To test this, set the multimeter to the ohmmeter mode and place each probe on each end of the fuse. If the resistance is low, it indicates that the fuse is OK however, if the resistance is high i.e. several Megaohms, it implies that the fuse is blown and will need replacement.

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department on 1800 786 476 or email to service@sungrowpower.com.au.