

Wels, May 4th 2017

Attachment to the Warranty Conditions of the Fronius Solar Battery within Australia – see <http://www.fronius.com/solar/warranty-au>

EXTENDED TEMPERATURE RANGE FOR FRONIUS SOLAR BATTERIES

The ambient temperature range of 5-35°C specified in the warranty conditions (see <http://www.fronius.com/solar/warranty-au>) of the Fronius Solar Battery, is the temperature range in which the Battery can provide the maximum performance. In this temperature range Fronius can guarantee the maximal use of the capacity.

Taking into account the limitations below, effective from 01 May 2017, Fronius allows the installation and use of the Fronius Solar Batteries in areas with extended ambient temperature.

Fronius Solar Battery extended ambient temperature range: 5 – 45°C

Limitations

- In charge mode battery stops charging at a cell temperature of 45°C*
- In discharge mode battery stops discharging, at a cell temperature of 60°C*
- Emergency Power is not possible if cell temperature reaches 60°C
- Capacity warranty can't be claimed

Effect of the restrictions to the performance:

- Multiple cycles per day at high temperatures are not possible
- Under normal conditions, the influence doesn't become very strong, because:
 - Battery starts charging in the early morning hours when ambient temperature is low.
 - At sunny days battery is fully charged after 2-5 hours
 - Battery can be discharged at higher temperatures.
- When Battery stops charging/discharging due to the cell temperature, PV-energy can still be used for self-consumption or feed-in.

Safety:

Due to internal heat monitoring the higher ambient temperatures doesn't increase the risk of overheating. To avoid overheating, the Fronius Energy Package contains safety measures which stop charging and discharging before the cells can reach critical conditions

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*Cell temperature depends on current and ambient temperature. Measurements show 10°C higher cell temperature at 11A current. Charging current up to 16A is possible.