Information for EFOY Pro customer

Hints for successful Antifreeze operation of EFOY Pro fuel cell used in combination with additional energy sources like for example solar panels

Many current solar charge controllers use temperature sensors to determine the maximum charge voltage of batteries. When a lead battery is exposed to low temperatures the full charge voltage can be higher than 16 V in a 12 V system setup or higher than 32 V in a 24 V system setup. However, at these voltages the EFOY Pro fuel cell reports error 51 or 53 with the result that the antifreeze operation of first generation EFOY Pro is not possible.

The first and second EFOY Pro generations react differently:

EFOY Pro 600 / 1200 / 1600 / 2200 / 2200 XT with Firmware 9.27 & 11.11

	12 V system voltage	24 V system voltage
Error 51 & 53	› 16 V	› 30,5 V
Self reset after Error 51 & 53	‹ 15 V	‹ 30 V

⚠ **No antifreeze mode possible when Error 51 or 53 is set.**

EFOY Pro 800 / 800 Duo / 2400 / 2400 Duo with Firmware 17.07

	12 V system voltage	24 V system voltage
Error 51 & 53	› 16 V	› 30,5 V
Self reset after Error 51 & 53	‹ 15 V	‹ 30 V
Maximum voltage for Antifreeze	17 V	32 V

→ Antifreeze operation is possible up to 17 V / 32 V, even if Error 51 & 53 has been activated.

Display on Operating Panel OP2

When Error 51 or 53 is activated and EFOY Pro starts antifreeze operation the battery voltage of 15 V / 30 V is automatically displayed in the Operating Panel, even if the battery voltage is higher.

During antifreeze operation error 51 or 53 is not shown. When the antifreeze operation cycle is completed, the error message will reoccur.

In case of questions, please contact us
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