

# Xantrex Battery Heat Blanket Application Note

976-0416-01-01  
Rev A

## DANGER

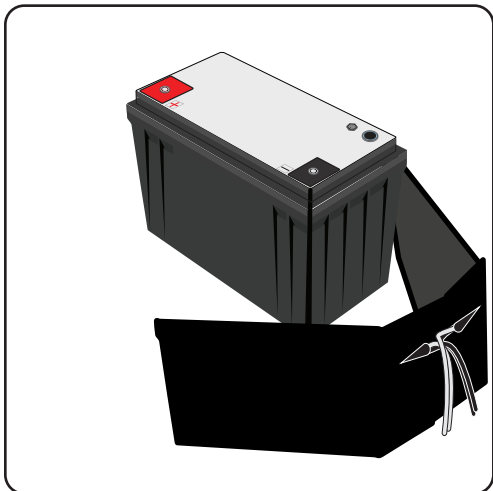
### HAZARD OF FIRE, ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

This Xantrex Battery Heat Blanket Application Note is in addition to, and incorporates by reference, the relevant product manuals for each product in the power system. After reviewing this guide you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

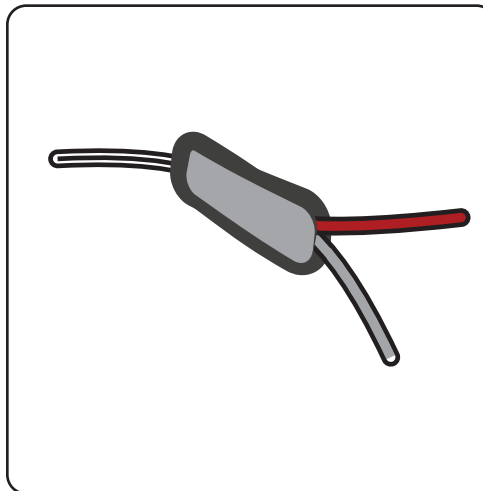
**Failure to follow these instructions will result in death or serious injury.**

## Application

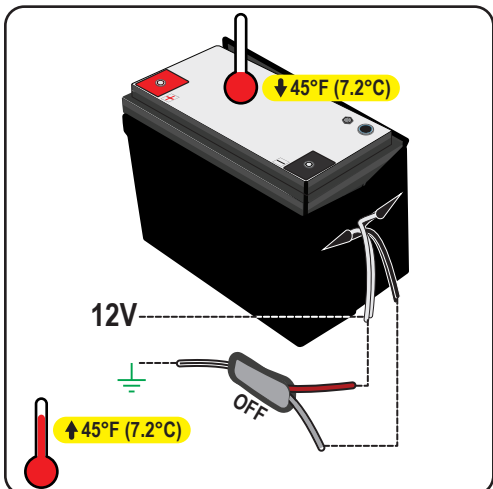
A temperature sensor shall activate a heating blanket that will warm up a cold battery. However, in a specific case where the ambient temperature that the temperature sensor measures is above 45°F (7.2°C), the heating blanket shall remain deactivated even if the temperature of the battery is below 45°F (7.2°C). As a consequence, the cold battery may acclimate for a longer period of time without help from the heating blanket. Additionally, once the battery is warm enough for charging, the heater blanket may be able to keep the battery warm only until the ambient temperature goes down to 14°F (-10°C). Below this ambient temperature, the heater blanket may lose its utility.



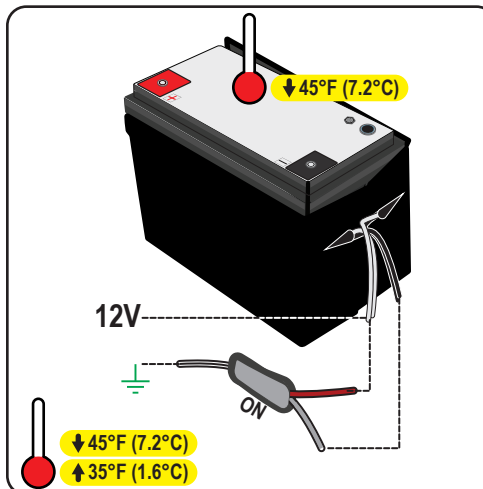
The heating blanket when activated warms the battery until it is deactivated by a temperature sensor that acts as its switch.



This temperature sensor measures ambient temperature not battery temperature.



It switches OFF when the ambient temperature is at 45°F (7.2°C) and above.



It switches ON when the ambient temperature is between 35°F (1.6°C) and 45°F (7.2°C).

This Application Note is applicable to the following accessories.

Heat Blanket Part Numbers		Use with
1260Ah Battery Heat Blanket	881-0230-12	12A Temperature Sensor Switch
G31 Battery Heat Blanket fits a single 125Ah battery	881-0180-12	10A Temperature Sensor Switch
eGEN 135W Heating Blanket Kit fits single 600Ah or 450Ah batteries	881-0060-12	12A Temperature Sensor Switch
G31 Battery 2-Position Heater Blanket fits a pair of 125Ah batteries	881-0250-12	12A Temperature Sensor Switch

Sensor Switch Part Numbers		Use with
12A Temperature Sensor Switch	881-0240-12	1260Ah Battery Heat Blanket eGEN 135W Heating Blanket Kit G31 Battery 2-Position Heater Blanket
10A Temperature Sensor Switch	881-0190-12	G31 Battery Heat Blanket

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