

Temperature Settings

Shutdown response :

What to do when a temperature threshold is passed. Valid only for the OTP detection.

Custom NTC design :

This button open a new window where calculations can be done when a non standard NTC is used

Temperature Source:

Temperature signal comes from :

-*ATSEN with NTC*: Use an external NTC resistor to measure temperature. Typically the NTC is placed near output inductors.

-*ATSEN with Integrated Tsense*: Available if the power stage(s) in Loop A provide an integrated temperature sense measurement

-*Disable*: Do not use the temperature function

For LoopB it can also be set to follow the loop A setting.

Temp Offset:

Allow an offset to be entered to compensate for any measurement errors or offset due to location of temperature sensor.

OTP Shutdown:

Select the temperature for when Over Temperature Shutdown is to be activated.

VR_HOT :

Select the temperature for when VR-HOT fault and pin to be activated. This function have a 3% hysteresis. i.e. When set to 100C the VR_HOT warning will be set when temperature goes above 100C and stay on until temperature drops 3% (97C) then the fault flag reset itself.