



TECHNICAL NOTE

TOPIC: Incompatibility of SB2000HF-US/SB2500HF-US/SB3000HF-US in Battery Backup and Off Grid systems (North America/-US Version)

SUMMARY

In order to guarantee the stable operation of AC coupled stand-alone grids, we continuously test all SMA inverters for compatibility with battery backup and off-grid systems. During this process we have determined that when using Sunny Boy HF inverters in combination with off-grid and backup systems, an undesired interaction between the regulators of the PV and the off-grid inverters can occur. Thus, the Sunny Boy 2000HF-US, 2500HF-US, and 3000HF-US are not compatible to be used with Sunny Island installations. This includes battery backup systems, as well as Off-Grid systems.

This irregularity only occurs in the event of low load and an almost full battery when a grid failure has occurred for backup systems, or during operation of an Off-Grid System. The error 6802 "defective input A" appears in the Sunny Boy HF display, even though there is no error present. Once this occurs, a disconnection on site is necessary in order that the PV inverter can continue operation. Without a power cycle of the inverter, this error will remain on the inverter until the system has been reset.

We kindly suggest that going forward to use another inverter that is compatible with a Battery Backup or Off-Grid system with a Sunny Island. You can find compatible list of inverters on our website at the following link, <http://files.sma.de/dl/7910/SB-OffGrid-TI-eng-UUS123813.pdf>.

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