

Defeating the power-save function on SmartGauge-SmartBank installations.

When used in conjunction with SmartBank Advanced, SmartGauge controls the battery paralleling relay by providing a full power pulse for approximately 350mS then switches to approximately half relay coil voltage by means of pulse width modulation. This greatly reduces relay coil current consumption (the power consumed is approximately half of the normal relay coil power), vastly reduces the relay operating temperature (thus increasing it's life) and allows a non continuously rated relay (a function of the coil not the contacts) to be operated in continuous duty. This is referred to as the "power save" feature.

In some installations it may be necessary to defeat this feature. Possible reasons being excessive radiated interference from the relay coil or the ability to externally control the relay by means of further relays interrupting the coil current. Normally this would allow other equipment to disconnect the relay but it will not always reconnect due to the reduced voltage.

For this reason the power save feature can be disabled by soldering across the 2 solder pads on the back of the PCB at the side of the SmartBank RJ11 interface socket. This can be accessed without opening the case. Note that this feature only affects operation when used in conjunction with the SmartBank Advanced.

To achieve the same result when using SmartBank Standard, refer to the SmartBank Standard owners manual.