



## State Code 530 Explanation and Resolution

April 7, 2009

### Explanation

State code 530 is an information display of an automated process and not an indication of a failure, safety risk or any interruption in power production within the IG Series inverters (the IG Plus series of inverters are not affected by State Code 530). The GFDI-2 card contains two sets of software, one which operates within the processor and a back up or archived set of software permanently stored on memory within the GFDI-2 card. During the start-up sequence, or low power from the Solar Array certain circumstances can cause a momentary disruption of communication between the GFDI-2 card and the inverter processor. This can result in a slight change in the software operating within the GFDI-2 card which is automatically detected and restored to the factory default setting from the archived memory and the message State Code 530 is displayed. This activity is done seamlessly and without any interruption whatsoever in power production.

### Resolution

The resolution can be as simple as pressing the enter button twice on the display of the inverter. However if the message reappears as it has with some customers, a more permanent resolution has been requested to eliminate this information displayed. As of April 7, 2009 Fronius is happy to confirm that a permanent resolution can be achieved by replacing the GFDI-2 card containing new software.

### Affected Inverters

All IG series inverters with a serial number of 20090092 forward already have updated GFDI-2 card installed. If you have experienced state code 530 repeatedly on an inverter with a serial number greater than 1814XXXX and less than 20090092 and would like to eliminate this recurring automated process message please contact your solar installer or Fronius. Please note that IG Plus inverters are not affected by State code 530.

Installers can upgrade any affected inverter by replacing the GFDI-2 card in the Plug-n-Play section of the inverter. It is estimated that this process will take between 15 to 30 minutes. Fronius will pay for shipping the replacement card and return of the old card as well as provide service reimbursement of \$175.00 per qualifying GFDI-2 card replacement (once the old card is returned). The reimbursement will be in the form of a credit to your distributor or check to the company doing the replacement of the GFDI-2 card.

Please contact our technical support at (810) 220-4414 with serial number of the affected inverter to proceed.

It is our goal to resolve this quickly and with minimum inconvenience. Fronius appreciates your business and continued support.

Best Regards,

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