

Growatt Inverter Error 111 cause & solution

Note: This is only applicable for Growatt single phase inverters

Cause

The voltage between the Neutral Line and the Earth Line (PE) is higher than 50 volt. Or there is no Neutral Line available (only Live Line L1, L2 for some special grid category). If this happens, the inverter would report Error 111 immediately after power up.

Solution

Disable the Neutral and Earth Line detecting function.

Please following the below 2 options:

1. Disable by set the register 192 to value 0 using Modbus test software.

Set to value 1: Activate Set to value 0: Disable

(1) Connect your laptop and inverter RS232 port via a RS232-to-USB converter, and install the proper drivers for the cable(the driver software would come with the cable). Open Modbus test software, Complete the required setting as per the below screenshot,

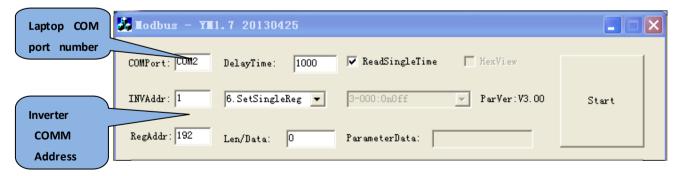
COMPort: check from your laptop's Device Manager;

INVAddr: check from the Inverter's LCD display, which is showing: COM Address: XXX

RegAddr: inverter register's address, fill in 192

Len/Data: fill in 0

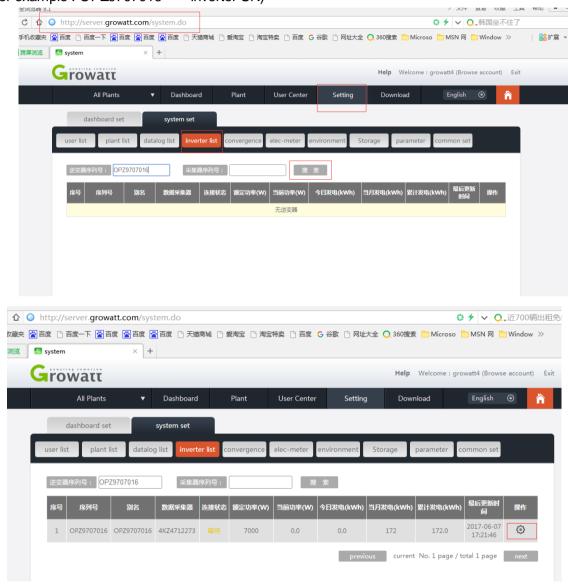
(2) and then click "Start".



- (3) Modbus software would be showing "!!--Response OK--!!", if the setting is successful.
- (4) Confirm the Error 111 had been cleared on the inverter.

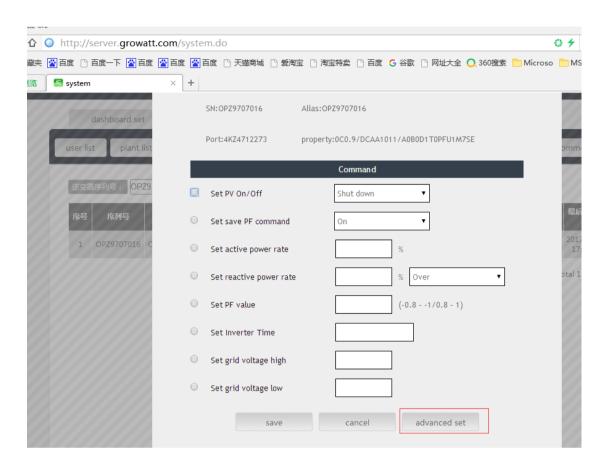


- 2. Set inverter Register number 192 to value 0 via the ShineServer monitoring interface.
- (1) Search and find your inverter on the ShineServer monitoring platform (for example : OPZ9707016 -- inverter SN)



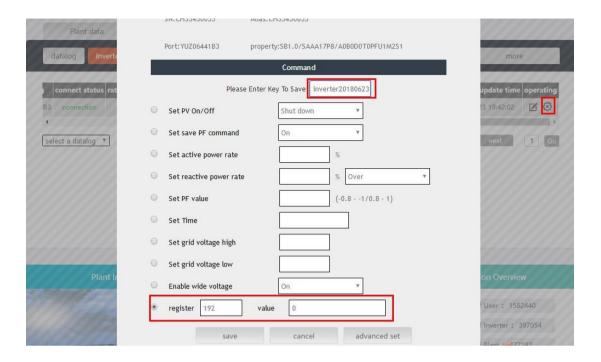
(2) Click the set button, a dialogue window would pop out.





(3) Click the 'advanced set' button, it will appear the register set choice and then set the right register and the value.





- (3) Select as the above illustration, fill in the register number with 192, and fill in the value as 0 (as illustrated on the above), then click "save". (The key for it is inverterYYYYMMDD)

 Repeat to set it for several times, in case the remote monitoring missing data.
- (4) Confirm the Error 111 had been cleared on the inverter.

Customer Service Department