

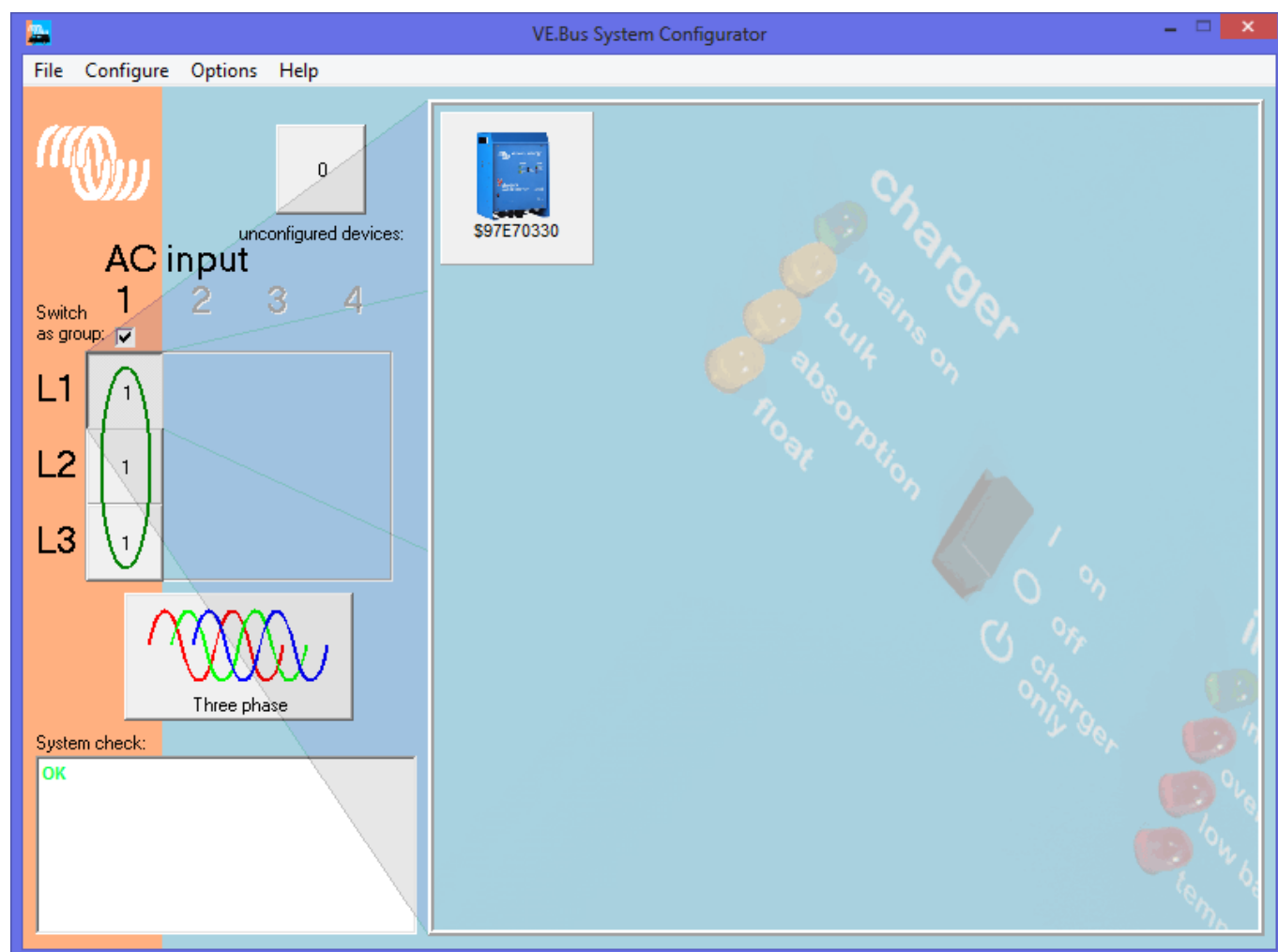
# PV Inverter Assistant in a three phase installation on 2xx

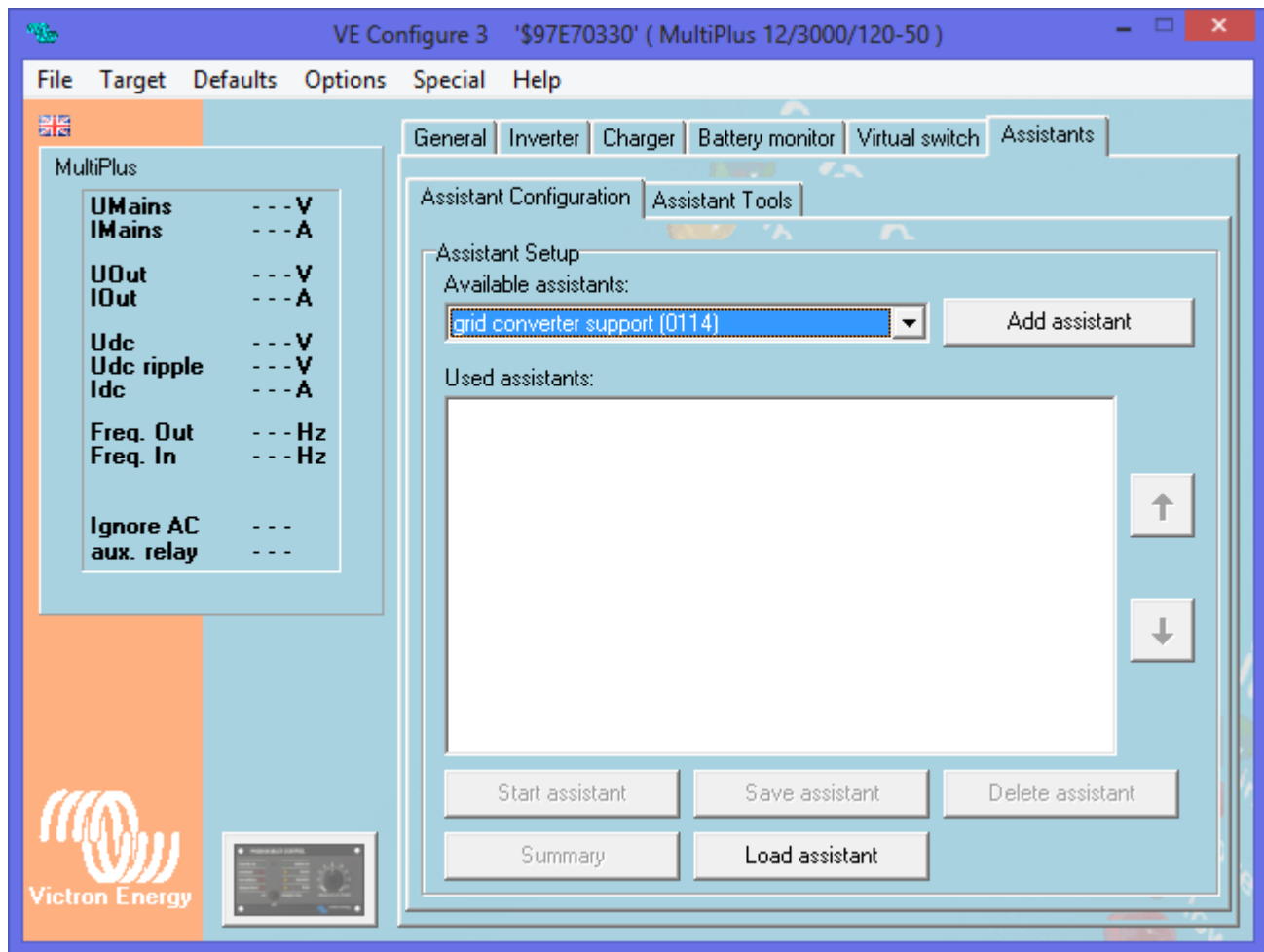
## Notes

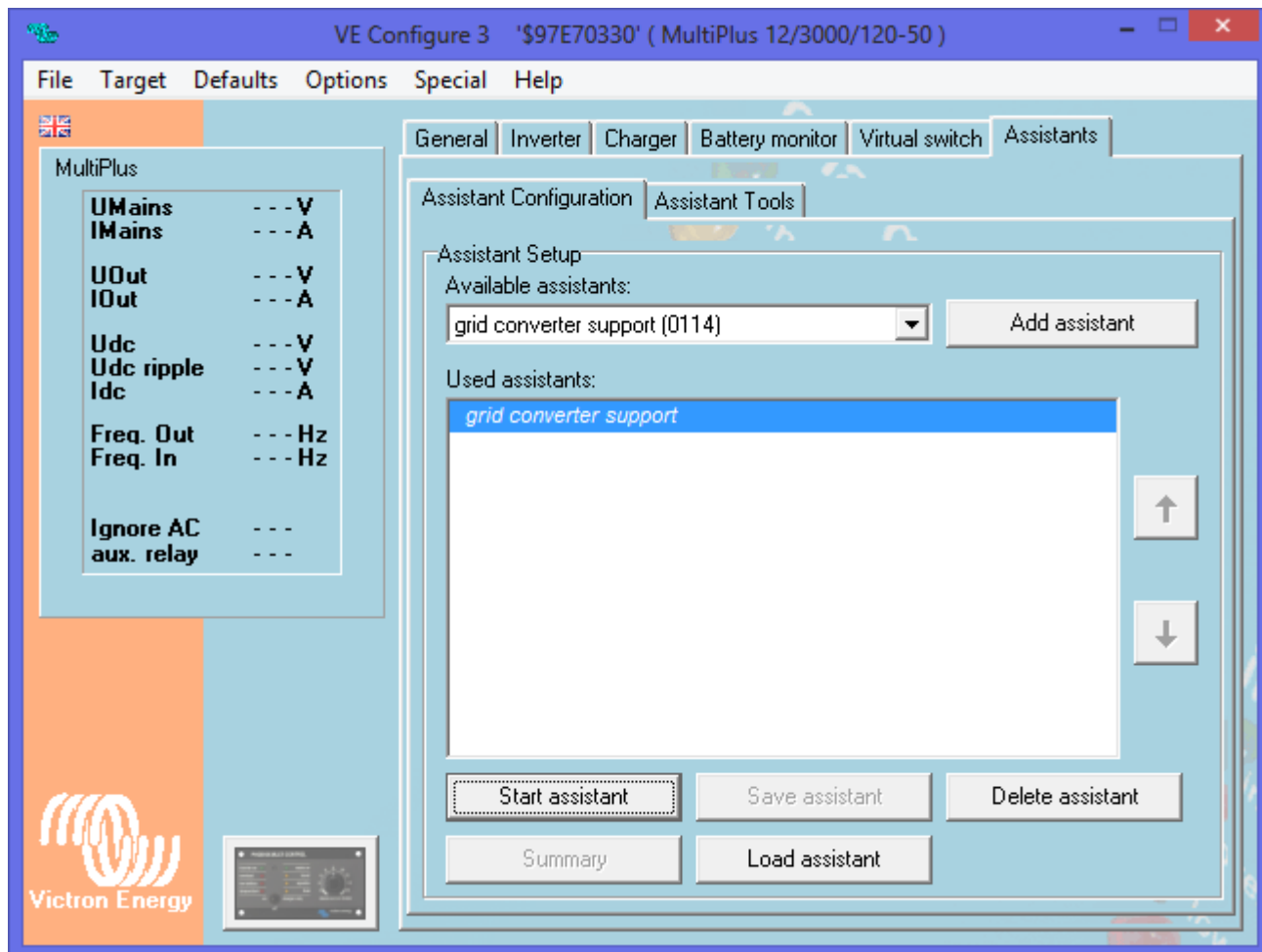
- This page shows VE.Bus System Configurator. Note that it is also possible to use VE,Bus Quick Configure.
- The channels configuration, which is what makes this a bit more complicated than usual, is only necessary on 2xx firmware. On new firmware (4xx), this is all done automatically behind the scenes.

## Step by step instructions

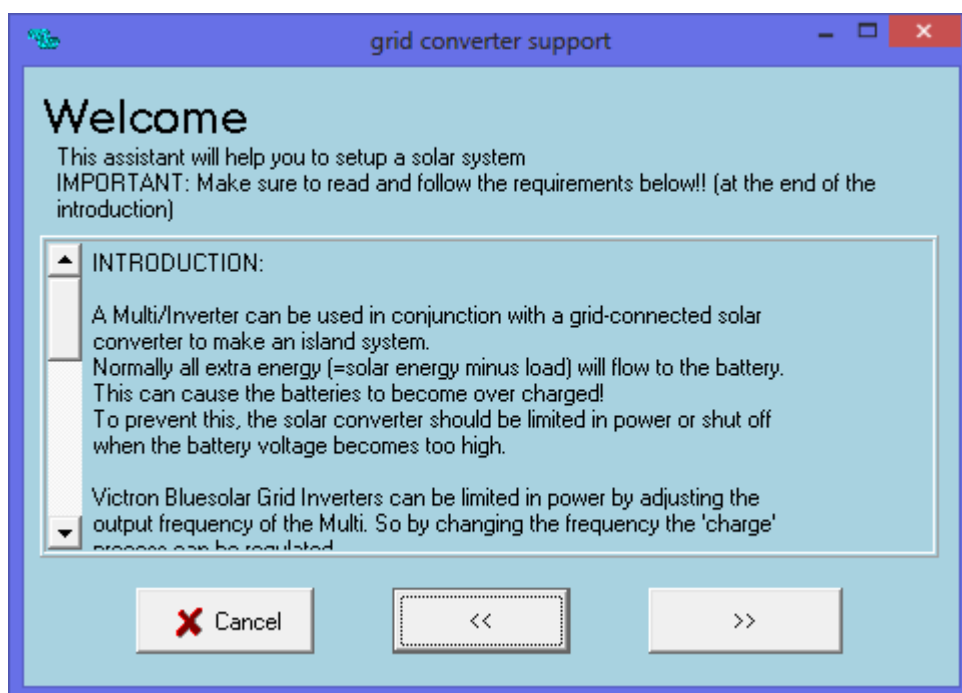
Select Phase 1 and right click on the Multi icon to access VE Configure:



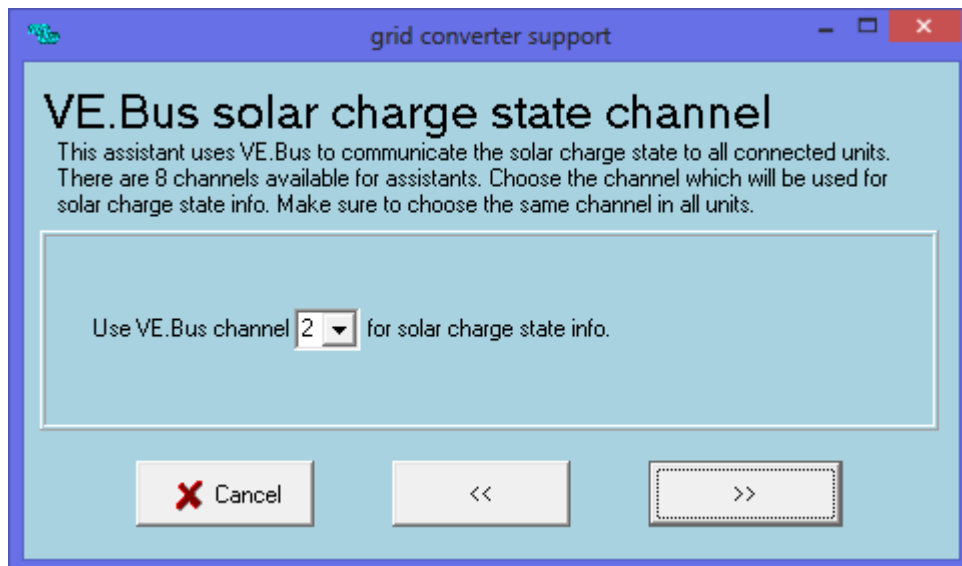




Start the assistant, read the welcome page carefully!

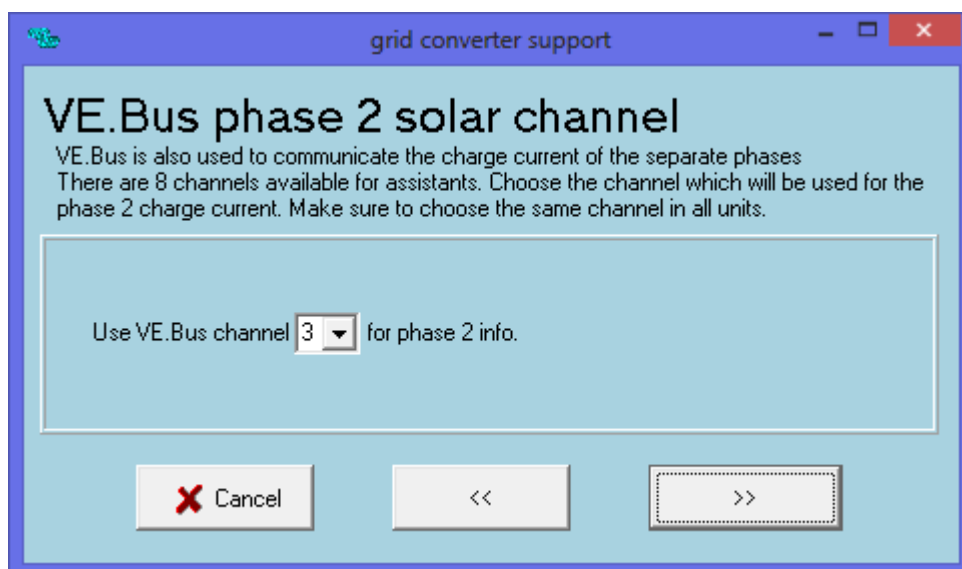


The Solar Charge Channel must stay at channel 2.



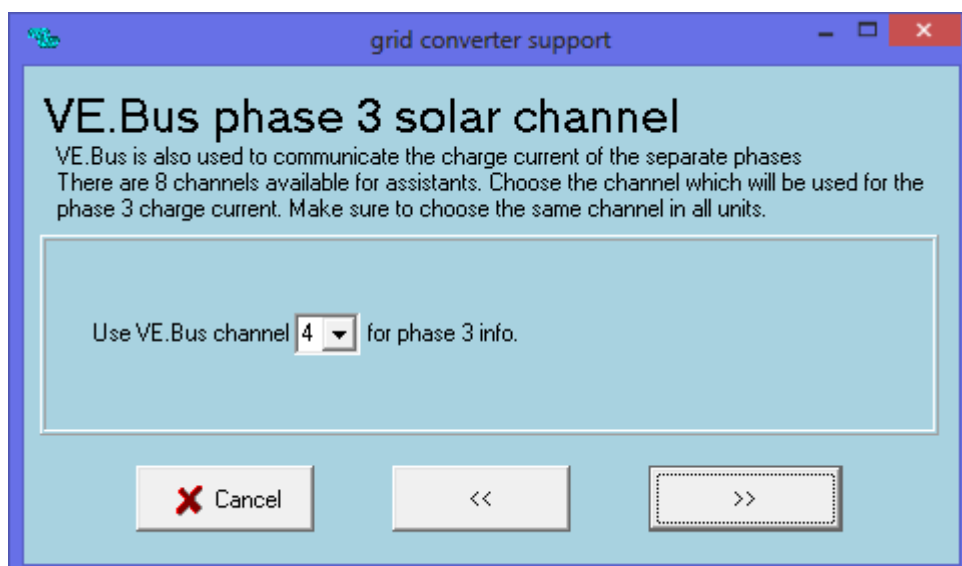
The screenshot shows a window titled "grid converter support" with a blue header. The main title is "VE.Bus solar charge state channel". Below it, a text block explains: "This assistant uses VE.Bus to communicate the solar charge state to all connected units. There are 8 channels available for assistants. Choose the channel which will be used for solar charge state info. Make sure to choose the same channel in all units." A large light blue box contains the text "Use VE.Bus channel" followed by a dropdown menu showing the number "2" and the text "for solar charge state info." At the bottom, there are three buttons: a "Cancel" button with a red 'X' icon, a left arrow button "<<", and a right arrow button ">>" with a dashed border.

Phase 2 Solar Channel stays at 3



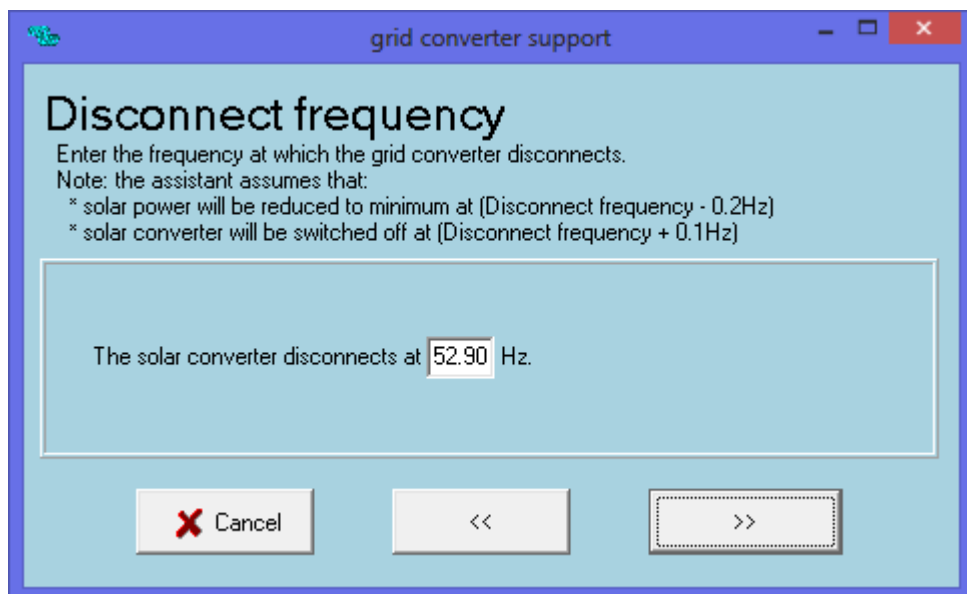
The screenshot shows a window titled "grid converter support" with a blue header. The main title is "VE.Bus phase 2 solar channel". Below it, a text block explains: "VE.Bus is also used to communicate the charge current of the separate phases. There are 8 channels available for assistants. Choose the channel which will be used for the phase 2 charge current. Make sure to choose the same channel in all units." A large light blue box contains the text "Use VE.Bus channel" followed by a dropdown menu showing the number "3" and the text "for phase 2 info." At the bottom, there are three buttons: a "Cancel" button with a red 'X' icon, a left arrow button "<<", and a right arrow button ">>" with a dashed border.

Phase 3 Solar Channel stays at 4



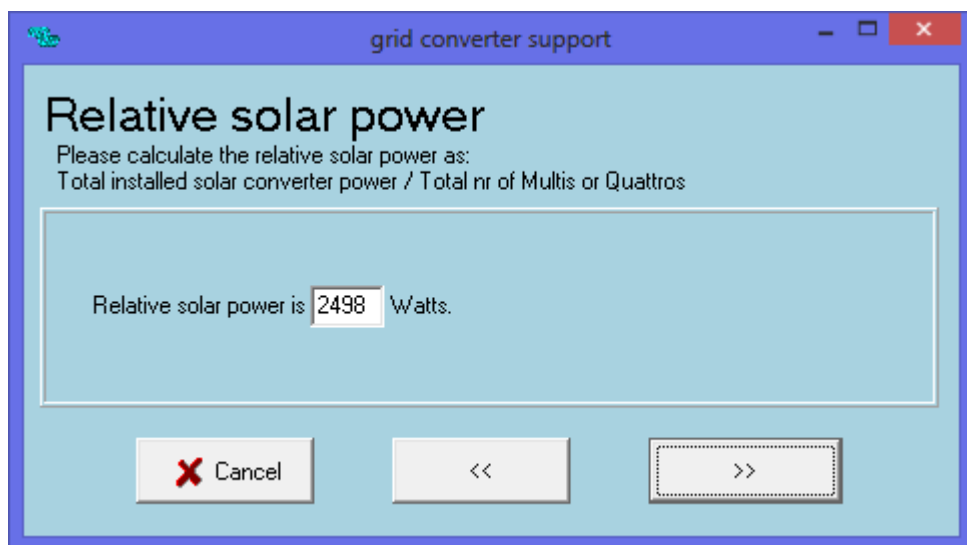
The screenshot shows a window titled "grid converter support" with a blue header. The main title is "VE.Bus phase 3 solar channel". Below it, a text block explains: "VE.Bus is also used to communicate the charge current of the separate phases. There are 8 channels available for assistants. Choose the channel which will be used for the phase 3 charge current. Make sure to choose the same channel in all units." A large light blue box contains the text "Use VE.Bus channel" followed by a dropdown menu showing the number "4" and the text "for phase 3 info." At the bottom, there are three buttons: a "Cancel" button with a red 'X' icon, a left arrow button "<<", and a right arrow button ">>" with a dashed border.

The Settings inside the Grid Inverter for Frequency control must be known, in smaller systems the start setting can be from 50.2 to 50.8 more or less and in bigger systems it can start at 51Hz. The Inverter/charger will only shift its frequency to just below the shutdown point to ensure the Grid Inverter stays on but stops producing power. In Smaller systems the shutdown point can be around 52hz and then again for bigger systems around 53Hz, these levels are only indications.



The screenshot shows a window titled "grid converter support" with a blue header bar. The main title is "Disconnect frequency". Below it, the text says "Enter the frequency at which the grid converter disconnects." and "Note: the assistant assumes that:". Two bullet points follow: "\* solar power will be reduced to minimum at (Disconnect frequency - 0.2Hz)" and "\* solar converter will be switched off at (Disconnect frequency + 0.1Hz)". A text box displays "The solar converter disconnects at 52.90 Hz." At the bottom, there are three buttons: a red "X Cancel" button, a "<<" button, and a ">>" button.

This value is the total installed PV Power divided by the number of Inverter/chargers.



The screenshot shows a window titled "grid converter support" with a blue header bar. The main title is "Relative solar power". Below it, the text says "Please calculate the relative solar power as:" and "Total installed solar converter power / Total nr of Multis or Quattros". A text box displays "Relative solar power is 2498 Watts." At the bottom, there are three buttons: a red "X Cancel" button, a "<<" button, and a ">>" button.

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