

# Victron Brand Inverter / Chargers

## Recommended Operation

### Background information

When a shore or generator supply is present at the input to the inverter/charger, the inverter/charger operates as a battery charger.

When the power supply to the input of the inverter/charger is not present, the unit begins to use battery power and converts this to 230/240 volts AC in order to continue supplying AC power to the vessel.

If the shore supply fails while the vessel is unattended, the vessel's batteries will not only lose the charge that was maintaining them in a fully charged state, they will begin to be discharged as the inverter/charger draws power from them to keep 230/240 volt AC powered devices running. If the shore power is off for an extended period, this will result in the batteries being very deeply discharged. They will discharge until their voltage is too low to keep the inverter running. At this point they will be very deeply discharged and irreversible damage could occur.

### Recommended operation of inverter / chargers

To prevent the problem described above, we recommend following this procedure.

Develop a habit of leaving the selector switch labelled **'ON' - 'OFF' - 'CHARGER ONLY'** in the **'CHARGER ONLY'** position.

When you need to use this unit to generate AC power, move the selector switch to the **'ON'** position. This will allow the inverter / charger to generate AC power from the ships batteries. When you no longer need to drain your batteries to make AC power, move the selector switch back to the **'CHARGER ONLY'** position.

This selector switch is indicated by the red arrow in the image below. There may be slight variations in switch position and labelling between models.

