



# Softstart Inverters SSI626 / SSI629

## Instruction Manual



# ENGLISH

## Instructions for use of the SoftStart 230V inverters

The SoftStart range of inverters transform 12/24V battery voltage into 230V mains voltage, thus enabling you to use your domestic equipment everywhere you want e.g. on camping, on a boat, in your car, etc. The regulated output voltage makes the inverters suitable for use with sensitive devices such as TV sets, video and audio devices, PCs or laptops and many more.

### General features of SoftStart inverters

- \* High performance at low heat production
- \* 50Hz stable output frequency
- \* regulated 230V output voltage
- \* Protection against short circuit and overheating
- \* With SoftStart battery protection system. If the battery voltage drops to 10.5V (21V for 24V batteries) the inverter emits an alarm signal. If the battery voltage drops even further, the inverter shuts off automatically. This advanced protection system avoids to over discharge the battery.

### WARNING

SoftStart inverters supply an output voltage of 230V which is as dangerous as the domestic mains voltage! Therefore only use double-insulated devices and replace immediately leads that are in bad condition. Don't expose the inverters to humidity and place them in a well ventilated area. The inverters with an earth connector can be connected to a grounding point such as a metal part of a boat or the car chassis. Important!

Under full load, high current is flowing through the battery cables. Therefore it is recommended to use only the supplied cables and no extension cables in order to avoid unacceptable voltage losses. If necessary, use an extension cord in the 230V circuit to the connected unit. To comply with the legal standards, the inverter may only be used with the supplied low voltage cables. Do NOT extend them.

### On/off switch

Connect the inverter to the battery (red is positive, black is negative). Make sure that all connections are of good quality. First switch on the inverter and afterwards the unit to be powered. Switch off in reverse order.

### Thermal protection

All SoftStart inverters are protected against thermal overload. If the temperature of the inverter rises above 55°C, the protection circuit is automatically activated and the unit is switched off. First switch off the connected unit and then the inverter. Let the units cool down before you switch them on again. Check if the cooling fan is not obstructed and make sure that there is sufficient air flow around the unit.

## Specific features of SoftStart inverters

### **12V / 300W or 24V / 300W model**

These inverters offer a continuous output power of 300W and accept short overloads of up to 600W. If the inverter is connected to the cigarette lighter plug via the supplied lead, the maximum load is limited to 150W. The battery lead with clips contains a fuse that can easily be replaced. Don't obstruct the built-in cooling fan.

A short overload of approximately 25% above the rating is allowed. Under full load a very high current is drawn from the battery. The connected battery must therefore be in very good condition and always fully charged. After some time of use, it might be necessary to start the engine of the car or the boat in order to recharge the battery. During this process, the inverter must NOT be switched on in order to avoid damage by a too high battery voltage.

<b>Specifications</b>	<b>12 V (SSI626)</b>	<b>24 V (SSI29)</b>
Continuous power	300W max.	300W max.
Peak power	1000W max.	1000W max.
Output voltage	12 V / 230 VAC	24V / 230 VAC
AC frequency	50Hz (±1%)	50Hz (±1%)
Efficiency	90%	90%
Stability	±10%	±10%
Dimensions	190 x 91 x 58 mm	190 x 91 x 58 mm
Weight	1.1 kg	1.1 kg