

# Solar Inverters

## From DC to AC



Inverters convert battery direct current (dc) to standard alternating current (ac) or "household" current.

Whether grid-connected or off-grid, on a kilowatt or megawatt scale – for almost thirty years our suppliers have been developing and manufacturing solar inverters which are used in PV plants and solar power stations worldwide

More than 500 engineers and the continuous process of innovation has made our suppliers market leaders in the solar technology, and has brought forth products which outclass all other available devices as far as efficiency, reliability and environmental friendliness are concerned.

- Over 30 years of experience
- Reliable
- Efficient
- Environmental friendly
- 5 year manufacturing guarantee

## Solar Monitoring Systems

### Control and overview

You want to be in control and at all times be able to have an overview over you solar system? No problem...

Solsquare can enable you to get your system's information and data anywhere you are and go. The simple and user friendly devices from SMA and Victron, top leading brands in the industry, give the consumer the option to control their solar investment without even being on-site.

### **SMA**



The products for system monitoring offer you the widest range of possibilities: wireless or internet based, compact or complex, concise or elaborate. Regardless whether you want to monitor the yield of a home roof system or of an open-field solar power station. With Solsquare, you will find the perfect solution for every application.



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## Victron



Nothing should be complicated and it is Solsquare's aim to make life on board straight forward as well as having ensuring your maximum comfort. To enjoy the benefits of power anywhere and anytime you need a sophisticated system but this would be self-defeating if you needed an engineering degree to make it all work. Solsquare's monitoring systems from Victron gives you clear and simple information and control of your solar system.

# Charge Controllers

## It is not just a matter of on and off



Charge controllers are key in ensuring maximum battery life. A battery connected directly to a PV module would overcharge and suffer permanent damage. Thus the need for a charge controller is absolute essential.

The more advanced charge controllers not only protect the batteries but also serve as an interface for system information. Current, voltage, State of Charge are useful information that a user would like to know about the system. Although not as advanced in terms of data feedback as battery monitors it will always give you a live mode status of the system.

**Direct controllers:** they simply connect the PV array to the batteries and disconnect once maximum battery levels are reached.

**Maximum Power Point Tracking (MPPT):** these charge controllers allow the panels to operate at optimum voltages while charging batteries at a different voltage. This optimizes solar yield, and an additional 20%-30% of power can be extracted from the PV array.

