Durable, Reliable and Affordable

How Does That Go Together?

Quality and affordable prices – does it have to be a contradiction? No, says Zeversolar, and systematically concentrates its production and devices on the essentials. This principle ensures not only affordable prices but also devices that are durable, reliable and easy to use.

www.zeversolar.com

Well-thought-out production meets European quality standards

Zeversolar manufactures its inverters at a factory in Yangzhong, China, that has been fully modernized since 2013 thanks to the German engineering expertise of its parent company SMA Solar Technology AG. The requirements imposed on processes and components are comparable with the Group's other locations and comply with European quality standards.

Production at Zeversolar

To ensure consistently high quality, the finished devices are tested in the company's own laboratories. Among other things, they must prove their resilience in a multi-step test procedure, which includes a full-load test lasting several hours in a climatic chamber at 40°C and 90% humidity. Every inverter that leaves the factory has passed all functional tests. A final test report enclosed with every product summarizes all the significant results of these tests and the crucial settings.

Simple is best

The inverters' minimalist design makes them more reliable and helps to keep prices low. The Zeversolar products' well-designed inverter topology uses approximately 1/3 fewer components than comparable devices. This means not only fewer components that could be defective and thus a lower rate of failure, but also greater efficiency even in high ambient temperatures, a smaller casing and lower weight. This simplifies the installation of the inverter and, in turn, lowers costs.

Zeversolar testing chamber

PV system monitoring safeguards investments

Correctly installing and operating a PV system is hardly rocket science. And yet, a 2015 study of over 100 PV power plants by Germany-based TÜV Rheinland confirmed that faults are not a rare occurrence: one in three systems inspected had defects and performance deficits. For this reason, PV system operators who want to safeguard their investment in the long term cannot do without monitoring.

Many problems with PV systems, for example, leakages, corrosion, and insulation defects, can be identified by way of a thorough visual inspection. However, hidden faults, such as broken cables, must be searched for in a targeted manner. Regardless of the nature of the fault, a drop in performance usually

Evershine TLC 4000 – 10000

results in intensive troubleshooting. The faster the cause is found, the easier and faster many faults can be rectified, ideally during the warranty period.

However, experience shows that operators regularly and actively monitor their systems shortly after commissioning, but their monitoring becomes more infrequent as time goes on. A monitoring system should therefore be able to send automatic warning messages. These messages are important not only to operators, but also to installers: they can use a fault as a starting point to offer a service.

ZeverCloud monitoring

A monitoring system should present the PV system's data in an easily understandable and legible manner, e.g., in the form of graphics. Moreover, the inverter should be easy to connect to the monitoring system.

Zeversolar has therefore developed its cloud-based and free monitoring portal ZeverCloud, which clearly presents the system's key real-time and historical data on a website. Operators can thus compare current performance data with the stored historical data to identify performance drop-offs.

But ZeverCloud is capable of even more: If operators want to be actively informed, the system sends automatic notifications and yield reports by email. If they want to access system data on a smartphone, they can use the ZeverCloud app on their iPhone or Android device.

ZeverCloud App

The connection of an inverter with integrated Com-Box to the monitoring system is as easy as the monitoring itself: It is initially connected to the internet via the WLAN module or a LAN cable. All that is then required is for the inverter's QR code to be scanned, and the device is linked to ZeverCloud.

European service

In Europe, the Zeversolar service is provided by Zeversolar's European service center, which is located in Germany. Zeversolar also concentrates on the essentials when it comes to service, namely fast and ongoing assistance in the event of problems. The customer enters all relevant information on the issue via the online form at https://www.zeversolar.com/service/online-claim

The responsible employee can then identify each individual device by way of its device number. A ticket makes it possible to track the status of the error report at all times until a replacement device is delivered within a few days.

Contact for partners and customers:
andreas.koenig@sma-solar.com

zeversolar