

e.World

Communications system for solar inverters

Information



BOSCH



- ▶ **Simplified planning, initial operation and monitoring**
- ▶ **Data transfer and configuration in seconds via RFID interface**
- ▶ **Integrated programme for the configuration and analysis of performance data**

The innovative e.World communications system

The e.World system significantly eases the planning and installation of photovoltaic systems and also includes the monitoring of systems.

Inverters take on a number of functions that go far beyond the conversion of direct into alternating current. They have long since become a bi-directional communication interface between generators and consumers and therefore offer an active contribution to feed-in management and therefore to the stabilisation of the power grid.

e.World offers the installer numerous access opportunities through the innovative networking of solar inverters with all peripheral devices, even after initial operation, in order to undertake the adjustments required by energy supply companies, for example.

Simplified planning and installation

After planning the system with the help of the e.Designer sizing software, numerous tools are available to the installer for quick and error-free installations. Alongside Ethernet interfaces, the new solar inverters also have an RFID communications interface. The setting of connection standards such as the 'land' and 'language' parameters takes place within a second with the credit card-sized e.Key onto which this data is saved. The professional e.Data setup tool allows the configuration and analysis of the inverters as well as the installation of updates directly on site using an Ethernet interface or WLAN, which creates the e.Connect component regardless of location. No software installation is necessary as the programme is already installed on the inverter. The installer immediately receives the graphically prepared display of all performance data of the inverters installed in the system and the U/I characteristic for detailed analysis.

Monitoring

The e.Web internet portal is available to installers and even the operator of the system for free. The portal is a user-friendly solution that makes a whole range of component and performance data relating to the photovoltaic system available to the system operator at all times. Detailed analyses of yield-relevant parameters in addition to variance comparisons are displayed in clear graphic illustrations.

There is, furthermore, the opportunity to communicate with the inverter using the e.UserApp on a smartphone and the e.Web webportal in order to call up relevant operation data. For example, this allows the current feed-in performance to be queried as well as the operating parameters (e.g. language) to be set or Firmware updates to be undertaken.

Accessories

All Bosch BPT-S series inverters are prepared with e.Control for data exchange with data loggers and the receipt of control signals. This means the adjustment of the active power to 70% or the gradual adjustment according to EVU projections is optionally possible.

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