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**TELE protects smartflower**Grid and system protection ensures safe grid separation in an innovative
all-in-one solar system.

**Simple, compact, functional, and as pretty as a flower – the all-in-one
smartflower solar system not only looks really cool, but it is also technically
 extremely well thought out. Its "flowerhead" follows the sun and generates
approx. 4,000 kWh per year – the average electricity demand of a household
in Central Europe. The smartflower can be equipped with integrated grid and
system protection from TELE for feeding solar power into the public grid. The
grid and system protection continuously checks the grid quality. If the voltage
or frequency in the public grid rises or falls beyond permissible limits, the small
 power station is immediately decoupled. In this way, unintentional islanded
operation is prevented, thereby preventing a dangerous situation for maintenance
personnel. Why did smartflower energy technology choose TELE? "The grid and
system protection from TELE satisfies various national standards. This important
when companies like us export their systems worldwide. All relevant parameters
for the TELE grid and system protection can be flexibly set directly in the field via
Open Setup. We can individually adapt standard parameter setups," explains
Michael Offermanns, Managing Director of smartflower regarding his decision.**

The grid and system protection ensures safe isolation between smartflower and the
 public grid in the event of a fault. The corresponding parameters for this separation
process are standardized differently in different countries. Therefore, the grid and
system protection device from TELE can be adapted to individual requirements. To
prevent misuse, password protection or sealing the device is possible at the official
delivery point. Operation in single as well as three-phase grids is possible through
simple switching. The new grid and system protection in smartflower is suitable for
medium and low voltages. It has a wide-ranging power supply with an adjustable
nominal voltage of 24 V DC, 110-240 V AC with up to 60 Hz nominal frequency. Both
 the measuring as well as the supply circuits are designed for nominal voltages of up
to 312 V AC. The device has a fail-safe design.

**Intelligent and elegant power generation**

The colorful solar power flower from smartflower is an absolute eye-catcher.
With plug & play, it is easy to install in your own garden and just as easy to
disassemble and transport. In operation, the system generates up to 40 percent
more energy than comparable PV systems. To achieve this, the smartflower POP
rotates its head and follows the course of the sun fully automatically. In the case
of strong wind or darkness, it automatically closes its pedals and cleans itself in the
process. The smartflower is also available with an optional built-in battery
pack for storing solar energy or as a ready-to-use solar e-fueling station.
[www.smartflower.com](http://www.smartflower.com)

**Text and images are available at**[**http://www.tele-online.com/organisation/kontakt/presse**](http://www.tele-online.com/organisation/kontakt/presse) **for download.**

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**About TELE**Founded in 1963, the company makes products for a better world and specializes in
high-value industrial electronics such as monitoring technology, time relays, power
electronics, and grid and system protection. Known as the Smart Factory, TELE is an
innovation laboratory for integrated technologies. At its Vienna location it produces
technological solutions for mechanical and plant engineering, renewable energies,
water & waste, and other industry sectors. TELE's organizational culture is free of
traditional hierarchies, which creates the space needed for independent thinking and
extraordinary ideas. In 2014, the company generated approximately 14 million euros,
10.5 million euros of which were from exports. In addition to the site in Vienna with
over 90 employees, TELE Group also consists of an international network of more than
60 trade partners.