

MppGuard product details

- MPP-Tracking on string level
- high efficiency (> 99 %)
- weatherproof housing, protection class IP 65
- one MPP-Tracking in one housing*
- Connection of strings up to max. 12,5A (Impp)

Technical data MppGuard

max. input voltage in idle state:	780 Voc DC
operational MPP voltage range:	250 V – 680 V DC
max. input current / string:	12,5A DC
Input power:	7,5 kWp
max. output voltage (Intermediate circuit):	800 V DC
min. output voltage (Intermediate circuit):	590 V DC (20 V DC over input voltage)
junction modules:	(MC4 or comparable)
junction DC-output:	(MC4 or comparable)
junction communication / monitoring:	RS-485
cooling:	passive (free convection)
performance monitoring:	web portal Sinusstrom Control
task of the MPP-Tracking:	determination of the optimal operating point of the modules allows a yield optimization of the whole system
Dimension:	240 * 340 * 160 mm
Weight:	approx. 7 Kg



Datasheet

The intelligent generator junction box for a central inverter

It is an intelligent generator junction box, which connects the solar panels and solar inverters. It combines the advantages of the central inverter concept for large systems with a decentralized MPP tracking. This novel technology allows thus a flexible plant design with optimized efficiency.

Minimized system losses, optimal working range

At large photovoltaic systems of conventional design constant losses are caused by mismatches at the operating point of the system. Mismatching occurs through the production scattering of the modules as well as through the various temperatures and orientations in large systems. Through the completely new concept of the MPP-tracking on string level, the system always operates at the operating point. Mismatching losses are reliably minimized.

Flexible System design

Through the integrated MPP-Tracking it is first time possible, to flexibly design large photovoltaic systems with the central inverter concept.

Your advantages at the design - operating on a Central Inverter:

- ✓ various modules, different types and manufactures
- ✓ various lengths of strings
- ✓ different orientated system parts (inclination angle and southern exposure)

Integrated monitoring

Through the integrated string current monitoring system failures are reliably detected and reported via email. The data is transferred via RS-485 databus and is adapted to the web portal control.

Easy Installation

It is surrounded by a weatherproof housing of the protection class IP 65 and prepared for a wall mounting. The simple installation is ensured by the extensive pre-wiring, so that only the strings of the modules and the data line have to be connected.