



MaxConnect – the connection box that brings a sunny smile to the faces of central solar inverter owners.

When using a SolarMax central solar inverter, the solar panels must be linked up in a connection box, which functions both as a collector and junction box. Since solar panels deliver high DC voltages and currents to the connection box, the box must be fitted with properly specified components if safe long-term operation of the solar power plant is to be guaranteed. Furthermore, the complexities involved in evaluating the voltages and currents meeting at the junction box can sometimes give sleepless nights to solar installation planners and installers. To solve the above problems we developed MaxConnect – a connection box which easily handles the very high DC voltages involved, and puts the smile back on the faces of those in charge.

Components developed for 900V DC

All components throughout the system are specified to cope with high DC voltages. The maximum power throughput is rated at 60 kW, which guarantees a long service life coupled with ready availability.

Comprehensive Protection

The system is protected against unsafe working conditions by integrated in-line fuses and anti-surge arresters. A high power disconnect enables the user to shut the system down at any time, even when running at full power.

Easy System Maintenance

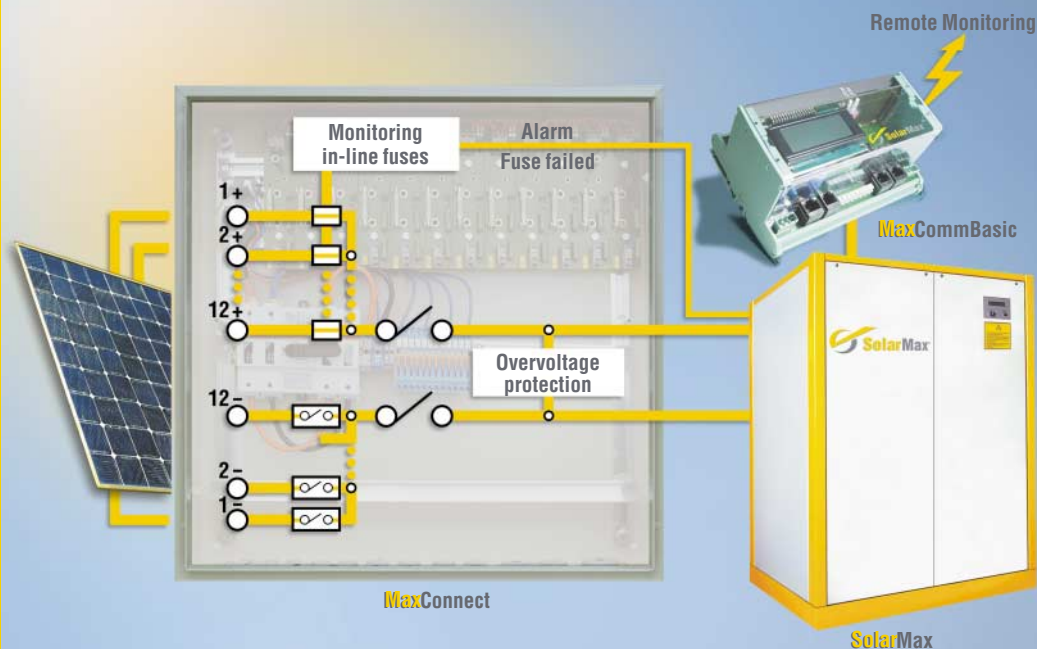
The disconnection terminals allow the user to isolate each input individually, making maintenance work and control measurements simple to do and efficient.

Everything You Need Pre-Assembled

SolarMax comes completely pre-assembled, with all parts rated to the required specifications. This makes the installation of the connection box really easy.

Remote Monitoring Option

The additional purchase of MaxControl allows the user to monitor the in-line fuses from a remote location. If a fuse is triggered, MaxControl automatically sends you a message, either via eMail or SMS.



Features

- Corrosion resistant sheet steel casing, complying with IP66
- Quick and simple wall mounting
- Completely pre-assembled and ready for installation
- Includes cable screw connections
- Includes in-line 15A fuses
- Accommodates up to 12 cable bundles
- Includes 12 x 6mm-screw connectors for the minus connections
- Caters for optional use of MaxControl, providing automatic remote monitoring and alarm functions for each in-line fuse

Technical Specifications

	Type 900 – 120– 15	Type 900 – 160– 15
Maximum input voltage	900 V _{DC}	900 V _{DC}
In-line fuse	15 A _{DC}	15 A _{DC}
Maximum combined current	120 A _{DC}	160 A _{DC}
Surge arrester threshold Varistors, threshold value	950 V _{DC}	950 A _{DC}
Input cable connectors	6 mm ²	6 mm ²
Earth terminal	35 mm ²	35 mm ²
Output connector	50 mm ²	95 mm ²
Disconnectors	Active on all poles	Active on all poles
Protection Type	IP66	IP66
Casing	Sheet steel	Sheet steel
Dimensions:		
Height	600 mm	800 mm
Width	600 mm	600 mm
Depth	250 mm	300 mm
Weight	25 kg	30 kg
Colour	RAL 7032	RAL 7032
Door locking	Optional	Optional

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