

# MaxConnect plus

The generator connection box for SolarMax central inverters



**+** SWISS QUALITY

MaxConnect plus makes it possible to bundle the individual strings of your PV generators. Individual string monitoring enables the device to recognise **defects and shading** early.

The currents and voltages place enormous requirements on the components. The device is designed throughout to handle 900 V. High-quality components guarantee long life and the best availability.

MaxConnect plus is completely **safeguarded**:

- Integrated string fuse monitoring and overvoltage conductor protect against extraordinary operating conditions.
- Thanks to a built-in high-performance isolating switch you can switch off the plant at any time quickly and safely, even under load.

Individual strings can be disconnected and metered for **maintenance and inspection**. Fuses can be replaced at zero potential.

MaxConnect plus **is delivered ready to connect**. The only thing left to do is to connect the strings from the solar modules and the bus to the SolarMax central inverter. You can mount the device at the fastening holes on the back.

MaxConnect plus has one **electronic string monitoring unit** which measures the individual currents and recognises deviations from the average value. The error tolerance can be set, individual strings can be masked out. The corresponding data are displayed in the integrated LC display.

It can be easily integrated into the plant monitoring system. In the event of a malfunction, the data loggers enable **error messages to be sent by email or SMS**.

# Specifications

		MaxConnect 12 plus	MaxConnect 16 plus
<b>Input values</b>	Maximum DC voltage	900 V	
	Maximum DC string current	10 A	
	Excess voltage category	II (III to 849 VDC)	
	Connector terminals	16 mm <sup>2</sup>	
	Protective earth terminal	50 mm <sup>2</sup>	
<b>Output values</b>	Maximum DC combined current	120 A	160 A
	Connector terminals	95 mm <sup>2</sup>	150 mm <sup>2</sup>
	Surge protection	Type 2	
<b>Ambient conditions</b>	Protective type compliant with EN 60529	IP65	
	Ambient temperature range	-20 ...+50	
<b>Configuration</b>	Load isolating switch	active on all poles; can be switched under full load	
	String current monitoring	Comparison of the string currents; Adjustable tolerance; individual strings can be masked out	
	Display	A, Ah per string; A, Ah total; error messages; adjustment of all important parameters	
	Protective class compliant with EN 61140	I	
	Casing	aluminium	
	Colour	RAL 1028/ RAL 7035	
<b>Guidelines and standards</b>	CE compliant	Yes	
	EMV	EN 61000-6-3 / EN 61000-6-2	
	Device safety	TÜV "Type approved" compliant with EN 50178	
<b>Interfaces</b>	Data communication	RS-485	
	Fault alarm contact	Potential free (floating) relay contact	
<b>Weight &amp; dimensions</b>	Weight	14 kg	17 kg
	Dimensions in mm (W x H x D)	600 x 520 x 150	720 x 520 x 170

## Features

- Aluminium casing with corrosion protection type IP65
- Quick and easy wall mounting
- Completely pre-assembled and ready to connect, incl. cable sleeves
- Designed for 12 or 16 strings
- Electronic string current monitoring with alarm system via MaxWeb xp
- Integrated LC display
- Integrated overvoltage protection

