

MaxConnect plus p

The generator connection box for SolarMax central inverters



 **SWISS QUALITY**

MaxConnect plus p 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 p 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 p **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. Instead of terminal connections (model: MaxConnect plus) MaxConnect plus p has MC4 connectors. You can mount the device with the fastening straps on the back.

MaxConnect plus p 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.

MaxConnect plus p meets the requirements of protective class II. It can be easily integrated into the plant monitoring system. In case of a malfunction, the data loggers enable **error messages to be sent by email or SMS**.

Specifications

		MaxConnect 12 plus p	MaxConnect 16 plus p
Input values	Maximum DC voltage	900 V	
	Maximum DC string current	10 A	
	Excess voltage category	II (III to 849 VDC)	
	Connection type	MC4	
	Protective earth terminal	50 mm ²	
Output values	Maximum DC combined current	120 A	160 A
	Connector terminals	95 mm ²	150 mm ²
	Surge protection	Type 2	
Environmental conditions	Protective type compliant with EN 60529	IP65	
	Ambient temperature range	-20 ...+50	-20 ...+40 °C
Configuration	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	II	
	Casing	Thermoplast	
	Colour	RAL 7035	
Guidelines and standards	CE compliant	Yes	
	EMV	EN 61000-6-3 / EN 61000-6-2	
	Device safety	type approved	
	Other standards	UTE C15-712-1	
Interfaces	Data communication	RS-485	
	Fault alarm contact	Potential free (floating) relay contact	
Weight & dimensions	Weight	33 kg	
	Dimensions in mm (W x H x D)	590 x 855 x 360	

Features

- Resistance-enabled thermoplast casing with protection type IP65
- Quick and easy wall or pole mounting
- Completely pre-assembled and ready to connect
- Designed for 12 or 16 strings
- Electronic string current monitoring with alarm system via MaxWeb xp
- Integrated LC display
- Integrated overvoltage protection

