








Q3 *ENERGIE*

GmbH & Co. KG

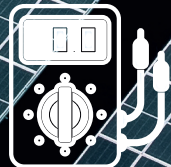


 **SUPER MULTI BOX**
Smart DC Combiner Box

DC Combiner with Intelligent Fault Detection

**Detect faults.
Isolate strings.
Protect energy yield.**

PATENT PENDING



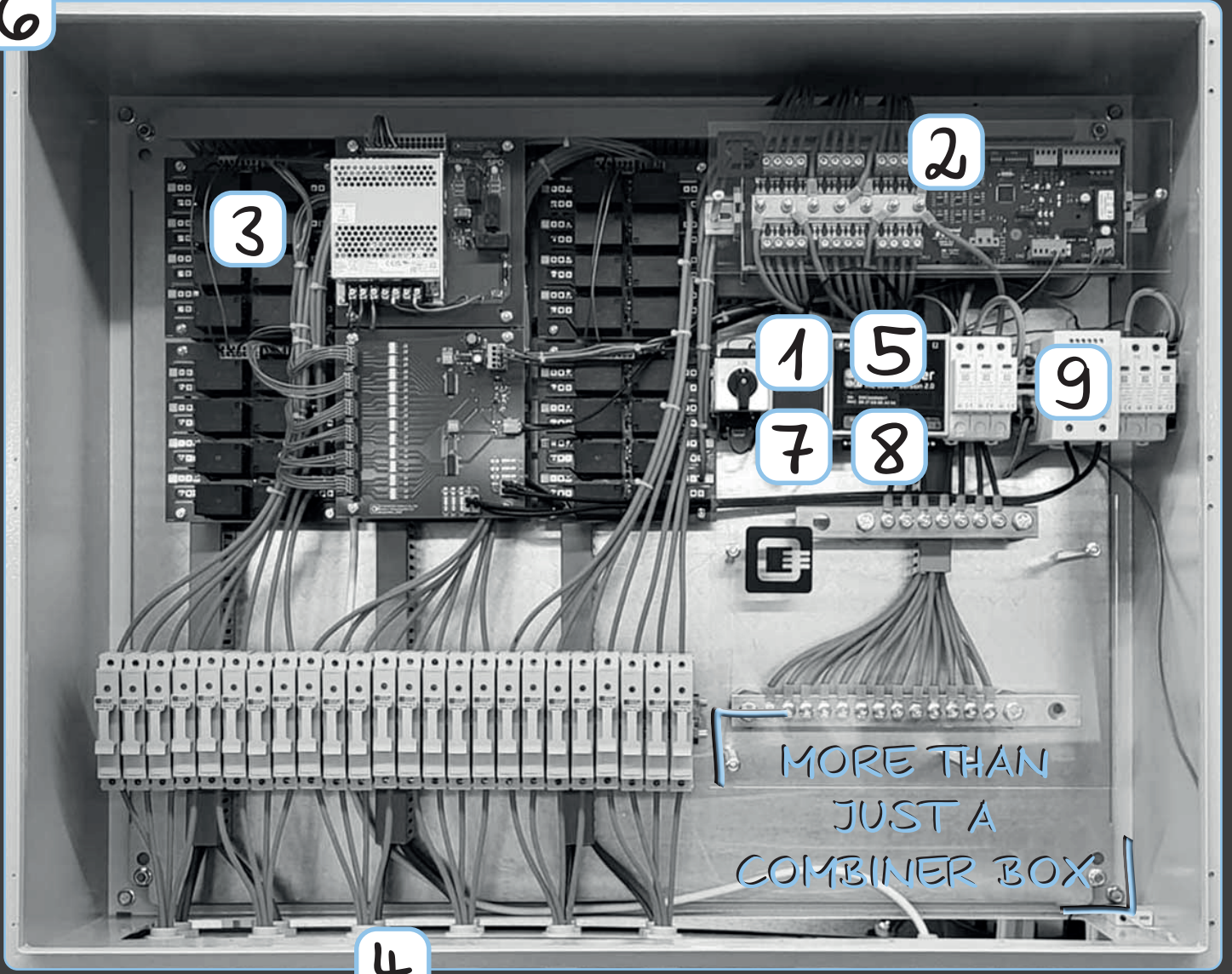
SUPER MULTI BOX

Smart DC Combiner Box

„Insulation faults in utility-scale PV plants are not uncommon. The new Q3 technology can save days of troubleshooting – and therefore significant costs.“

PATENT PENDING

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MORE THAN
JUST A
COMBINER BOX

1

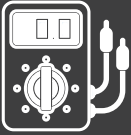


PV String Fault Discriminator

PATENT PENDING

In the event of a fault, the system disconnects all strings, automatically reactivates them one by one and isolates the affected string while the remaining strings continue operating.

2



Individual String Current Monitoring

Monitoring of individual string currents with optional software-based string protection.

3



Firefighter Switch

Additional disconnecting device for emergency situations, maintenance work and repair operations.

4



Plug & Play with MC4-EVO2

Fast and straightforward installation.

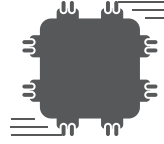
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Monitoring

GUI software for system monitoring, operational data logging and remote diagnostics.

6



Combiner

Combines up to 24 strings into a single DC output. Robust steel enclosure with self-powered DC/DC supply from the PV array.

7



Universal Communication

Optional communication interfaces with battery-buffered operation via LMP battery cell.

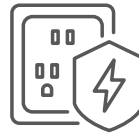
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Remote Access

Configurable and manageable via software.

9



Type 1+2 Surge Protection

Up to 1,500 V DC with additional string protection through integrated fusing.

SUPER MULTI BOX 

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Technical Specifications – Super Multi Box DC Combiner

Switching Principle	Galvanic Isolation
Connections	Stäubli MC4-Evo 2 (compatible with all MC4 connectors) 4-6 mm ²
Number of Strings	8 / 16 / 24 string inputs combined into one DC output (cable lug)
Standards	CE, IEC 60947-3
Enclosure	
Material	Steel
IP Rating (EN60529)	IP 66
Impact Resistance	IK10 (-25 °C / +60 °C)
Standards / Certification	IEC 62208, IEC 61439-1, UL508A
Installation Location	Protected outdoor installation
Dimensions L x W x D (mm)	up to 24 strings: 800 x 1000 x 300 mm (Additional enclosure sizes available depending on string count)
Weight	up to 70 kg (depending on configuration)
Electrical Ratings	
Rated Isolation Voltage	1,500 V DC
Maximum System Voltage	1,500 V DC
Control Electronics Supply Voltage	24 V DC / 5 V DC (supplied via integrated DC/DC converter from PV)
Maximum Switching Current per String (Isc)	20 A
String Fuses	Fuse holders with cartridge fuses, positive and/or negative pole (optional)
Surge Protection	
Category	DC T1+2
Remote Signalling Contact	Yes
Compliance	IEC 61634-31:2018, IEC 61634-31:2018, EN 50539-11:2013+A1:2014
Communication	GUI Software Ethernet Modbus RS485 LED Status Indication
Operating Temperature	- 25°C bis +50°C
Relative Humidity	0–99 % RH (non-condensing)
Options	Monitoring and Data Acquisition: Individual string current monitoring, SPD status, ON/OFF status, output voltage monitoring



Print product with financial
climate contribution

ClimatePartner.com/12518-1907-1001



Configure Your Project
Scan the QR code and send your enquiry.

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MADE IN GERMANY

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