Q3 ENERGIE
GmbH & Co. KG

PV Combiner Box

Custom DC Connection Technology for Photovoltaic Systems up to 1,500 V DC
From small commercial rooftop installations to utility-scale solar power plants.
Project-specific design based on string layout and inverter architecture.

Designed. Manufactured. Tested. Made in Germany.

PROJECT-SPECIFIC
Individually designed and manufactured according to your project requirements.

FLEXIBLE & MODULAR
Configurable system architecture for maximum project flexibility.

SAFE & RELIABLE
PV-optimised components for long-term operational reliability.

MADE IN GERMANY
Development, manufacturing and electrical testing in Germany.

Maximum System Voltage	1,500 V DC
Rated Insulation Voltage	1,500 V DC
Strings per MPPT Input	1-24
Strings per MPPT Output	1-24
Number of MPPTs	1-24
Fuse Protection	Fuses +/- (optional)
Blocking Diodes	Diodes +/- (optional)
Surge Protection	Type 1+2 (optional)
Input Connection Technology	MC4-EVO2 or terminal blocks
Output Connection Technology	MC4-EVO2 or terminal blocks
DC Isolator	Optional
Enclosure	Polycarbonate or sheet steel
Protection Rating	Up to IP67
Installation Location	Protected outdoor installation
Applicable Standards	IEC 61439-2, IEC 61439-1, IEC 61643-31, EN 50539-11
Additional Options	String current monitoring, monitoring systems, status signalling and more

Q3. The Box Makers.

Modular Configuration System

Your Ordering Code – Configure Your Q3 String Combiner Box

G4	3	F+	00	1	MC	KL	12	SW
1	2	3	4	5	6	7	8	9

1	**Product Type | Number of MPPTs**	Generator Junction Box (PV Combiner Box) | 1–24
2	**Strings per MPPT Input**	1-24
3	**Fuse Protection + | Blocking Diodes + | None**	F+ = Positive Fuse Protection | D+ = Positive Blocking Diode | 00 = none
4	**Fuse Protection - | Blocking Diodes - | None**	F- = Negative Fuse Protection | D- = Negative Blocking Diode | 00 = none
5	**Strings per MPPT Output**	1-24
6	**Input Connection Technology**	MC = MC4-EVO2 | KL = Terminal Blocks
7	**Output Connection Technology**	MC = MC4-EVO2 | KL = Terminal Blocks
8	**Surge Protection Device (SPD)**	00 = without SPD | 12 = Type 1+2 SPD
9	**Options**	SW = DC Isolator

Example Configuration

G4.3.F+.00.1.MC.KL.12.SW

- 4 MPPTs
- 3 strings per MPPT input
- Fuse protection on positive conductor
- No fuse protection or blocking diode on negative conductor
- 1 string per MPPT output
- MC4-EVO2 input
- Terminal block output
- Type 1+2 surge protection
- Integrated DC isolator

Custom Configurations Available
We design and manufacture every DC combiner box according to your project requirements.

Request Your Project-Specific Configuration
Scan the QR code and submit your string layout.

Disclaimer: Information provided without guarantee. Technical modifications, errors and omissions excepted. Q3 assumes no liability for damages arising from incorrect or incomplete information.

MADE IN GERMANY

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