KACO new energy.

DC-Combiner Box

DC combiner.



Our partners

HIS we connect solar energy

Weidmüller

Make short work of long cables.

- Designed for a DC system voltage up to 1 500 V
- Direct connection of DC strings
- String monitoring (optional)
- Protection rating IP65
- IEC 61439-2 compliant planning and construction
- Surge protection device type I + II
- Flexible number of DC inputs
- Fuse protection on plus and minus side 15 A / 20 A / 25 A / 30 A
- Depending on the version, the size and appearance of the housing may vary

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General technical Data

DC input data	CD-Combiner Box
Max. no-load voltage	1 500 V
Max. input current (InC)	10 - 19 A[1)]
Switch disconnector breaking & making capacity	250 / 400 A
Number of DC-string connections	12 / 14 / 16 / 20
String monitoring (optional)[2)]	
Measurement range-voltage	450 - 1500 V
Voltage measurement tolerance	0.5 %
Interfaces	RS485 (Modbus RTU) 4 x digitial input
Control units	status display and 4 buttons of local operation
Number measuring channels	up to 20
Self-consumption	< 3 W
General data	
DC connection (input)	direct connection
DC connection (output)	cable lug, max. 240 mm² (0.372 in²) Cu or Al
Ambient temperature	-20 °C - + 40 °C
Humidity	0 - 95 %
Max. installation elevation (above MSL)	2 000 m
Protection class	IP65
H x W x D	615 x 847 x 330 mm - 835 x 1050 x 360 mm[3)]

[1)] The maximum string current varies depending on the DC combiner variant.
[2)] The properties of the measuring technology vary depending on the installed manufacturer and can be requested.
[3)] Depending on the version, the size and appearance of the housing may vary.

Versionen	Box 12-20	Box 12-20 Mon
Number of DC inputs	12-20	12-20
DC switch	✓	✓
Fuse holder PV+	✓	✓
Fuse holder PV-	✓	✓
Fuses	-	-
DC surge protection	Typ 1 + 2	Typ 1 + 2
String monitoring	-	✓
Weight[4)]	42 kg	43 kg

[4)] Depending on the version, the weight of the DC-Combiner may vary

standard = ✓

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted.
This current version replaces all older versions. Download the most current version at: www.kaco-newenergy.com