

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



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 digital 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 mm ² (0.372 in ²) 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 = ✓