

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 disconnecter 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 = ✓