

PV Combiner Box



Plastic Combiner Box



Metal Combiner Box



Plastic Combiner Box



Plastic Combiner Box

PV Combiner Box Data Sheet 2-4 Strings

Technical data			
Strings Number	2 strings Combiner Boxes	4 strings Combiner Boxes	4 strings Combiner Boxes
Enclosures			
Dimensions (H/W/D)	223(H) x 235(W) x 94(D)	223(H) x 235(W) x 94(D)	500(H) x 400(W) x 140(D)
Material	PPO/PC	PPO/PC	Matel+Plastic sprayed surface
Install method	Screw	Screw	Screw
Degree of protection (according to EN 60529)	IP67	IP67	IP65
Out Color	Black	Black	Offwhite
Electrical properties			
Max. open circuit DC voltage	1000V DC	1000V DC	1000V DC
Earthing (DC)	Yes	--	Yes
Max. DC short circuit current per input	20A DC	20A DC	20A DC
Surge protection Device	1000V DC 40KA	--	1000V DC 40KA
Surge protection RS-485 side/RS232 (string monitoring)	--	--	Yes
Inputs			
Number of DC inputs (plus and minus = one input)	2	4	4
Connection DC input cables (+) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Connection DC input cables (-) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Entrance DC input cables through	Matching MC4 connector	Matching MC4 connector	PG16 cable gland, IP67, Ø:5-10 mm
Fuses	With Fuse	With Fuse	With Fuse
Location of fuses	Positive and negative inputs	Positive and negative inputs	Lock the Fuse holders
Outputs			
Number of DC outputs (plus and minus = one output)	1	1	1
Connection DC output cables to	4-10 mmsq	6-16 mmsq	6-16 mmsq
Exit DC output cables through	PG25, IP67, 10-14mm	PG25, IP67, 10-14mm	
Max. output circuit breaker current(A)	--	--	63A
Switch-disconnector with auxiliary contact	--	--	Yes
String monitoring			
Monitoring of input current, voltage and temperature	--	--	Yes

PV Combiner Box Data Sheet 6-10 Strings

Strings Number	6 strings Combiner Boxes	8 strings Combiner Boxes	10 strings Combiner Boxes
Enclosures			
Dimensions (H/W/D)	500(H) x 600(W) x 180(D)	500(H) x 600(W) x 180(D)	500(H) x 720(W) x 180(D)
Material	Matel+Plastic sprayed surface	Matel+Plastic sprayed surface	Matel+Plastic sprayed surface
Install method	Screw	Screw	Screw
Degree of protection (according to EN 60529)	IP65	IP65	IP65
Out Color	Offwhite	Offwhite	Offwhite
Electrical properties			
Max. open circuit DC voltage	1000V DC	1000V DC	1000V DC
Earthing (DC)	Yes	Yes	Yes
Max. DC short circuit current per input	15A DC	15A DC	15A DC
Surge protection Device	1000V DC 40KA	1000V DC 40KA	1000V DC 40KA
Surge protection RS-485 side/RS232 (string monitoring)	Yes	Yes	Yes
Inputs			
Number of DC inputs (plus and minus = one input)	6	8	10
Connection DC input cables (+) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Connection DC input cables (-) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Entrance DC input cables through	PG16 cable gland, IP67, Ø:5-10 mm	PG16 cable gland, IP67, Ø:5-10 mm	PG16 cable gland, IP67, Ø:5-10 mm
Fuses	With Fuse	With Fuse	With Fuse
Location of fuses	Lock the Fuse holders	Lock the Fuse holders	Lock the Fuse holders
Outputs			
Number of DC outputs (plus and minus = one output)	1	1	1
Connection DC output cables to	10-25 mmsq	16-35 mmsq	16-35 mmsq
Exit DC output cables through			
Max. output circuit breaker current(A)	100A	100A	160A
Switch-disconnector with auxiliary contact	Yes	Yes	Yes
String monitoring			
Monitoring of input current, voltage and temperature	Yes	Yes	Yes

PV Combiner Box Date Sheet 11-16 Strings

Strings Number	11 strings Combiner Boxes	12 strings Combiner Boxes	16 strings Combiner Boxes
Enclosures			
Dimensions (H/W/D)	500(H) x 720(W) x 180(D)	500(H) x 720(W) x 180(D)	500(H) x 800(W) x 180(D)
Material	Matel+Plastic sprayed surface	Matel+Plastic sprayed surface	Matel+Plastic sprayed surface
Install method	Screw	Screw	Screw
Degree of protection (according to EN 60529)	IP65	IP65	IP65
Out Color	Offwhite	Offwhite	Offwhite
Electrical properties			
Max. open circuit DC voltage	1000V DC	1000V DC	1000V DC
Earthing (DC)	Yes	Yes	Yes
Max. DC short circuit current per input	15A DC	15A DC	15A DC
Surge protection Device	1000V DC 40KA	1000V DC 40KA	1000V DC 40KA
Surge protection RS-485 side/RS232 (string monitoring)	Yes	Yes	Yes
Inputs			
Number of DC inputs (plus and minus = one input)	11	12	16
Connection DC input cables (+) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Connection DC input cables (-) to	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)	Fuse holder (0,75 mm ² - 25 mm ²)
Entrance DC input cables through	PG16 cable gland, IP67, Ø:5-10 mm	PG16 cable gland, IP67, Ø:5-10 mm	PG16 cable gland, IP67, Ø:5-10 mm
Fuses	With Fuse	With Fuse	With Fuse
Location of fuses	Lock the Fuse holders	Lock the Fuse holders	Lock the Fuse holders
Outputs			
Number of DC outputs (plus and minus = one output)	1	1	1
Connection DC output cables to	16-35 mmsq	16-35 mmsq	16-35 mmsq
Exit DC output cables through			
Max. output circuit breaker current(A)	160A	160A	200A-250A
Switch-disconnector with auxiliary contact	Yes	Yes	Yes
String monitoring			
Monitoring of input current, voltage and temperature	Yes	Yes	Yes