

Residential Combiner Box

PV Combiner Box to bundle the output lines of individual strings and to connect them to the inverter.

Smart design customized for each customers application. Advanced surge-protection devices, fuse links and switch disconnecter keep the correct operation and protection of the system. Additionally, PV Combiner Box fulfill the standard IEC/EN 61439-2 to offer a high reliability on the units supplied.



PVNCM113S1F3V101TXPX10

Order Number **7770019118**

Technical Data

APPLICATION DATA

Operating ambient temperature range	-20 °C to +40 °C
Intended installation location	Protected outdoors (>1 km from sea)
Degree of protection (acc. to IEC 60529)	IP65
Conformity with norms	IEC 61439-2 ed 2.0 / EN 61439-2:2011

ELECTRICAL CHARACTERISTICS

Rated DC voltage (Un)	1000 VDC
Rated DC current per input (Inc)	15A at 35 °C ambient
Rated DC current per input (10h short-circuit at main output)	1.25 · Inc
Switch disconnecter breaking & making capacity (acc. to IEC 60947-3)	N/A
Contactor breaking & making capacity (acc. to IEC 60947-4-1)	1x45
Switch-disconnector / Circuit breaker / Contactor handle location	Griff external handle (outside enclosure)
DC earthing system	N/A
Surge protection on DC ports	Surge voltage arrester 1000V Type I + II with auxiliary
Order Number Spare arrester	2x 2530600000 VPU PV I+II 0 1000; 1x 2534300000 VPU PV I+II 0M 1000

ENCLOSURE

Enclosure dimensions (H x W x D)	360 x 360 x 171 mm
Form factor	Box with removable cover
Material	Glass-fiber reinforced polyester (GFRP), polycarbonate cover
Fixing system	Direct wall mount

INPUTS

Number of DC inputs (+ & - being one input)	1x3
Positive / negative DC input wires' to be connected to / cross-section (stranded)	WM4 C connector compatible with cable type TUV 2 Pfg1169/08.07 / EN 50618:2015
Positive / Negative DC input wires' outer diameter	N/A
Fuses	Empty fuse holders
Fuse form factor	10x38 mm
Location of fuses	Positive and negative inputs
Fuse-link rated current (I_n)	15 A
Fuse-link time-current characteristic	gPV (EN 60269-6)
Earth wire to be connected to / cross-section (stranded)	Screw connection / 0.75 - 50mm ²
Earth wire outer diameter	5 - 10mm
Coil (230 VAC) cable(s) wires ' to be connected to / cross-section (stranded)	1 - 2,5 mm ²
Coil (230 VAC) cable(s) wires ' outer diameter	5-10mm
Surge protection auxliary contact cable(s) wires ' to be connected to / cross-section (stranded)	0.5 - 1 mm ²
Surge protection auxliary contact cable(s) wires ' outer diameter	5 - 10mm

OUTPUTS

Number of DC outputs (+ & - being one output)	1x1 / 1x3
DC output wires' to be connected to / cross-section (stranded)	WM4 C connector compatible with cable type TUV 2 Pfg1169/08.07 / EN 50618:2015
DC output wires' outer diameter	5-10mm

OTHERS

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