

Smart Level 1 Combiner Box

Smart PV Combiner Box Level 1 to bundle the output lines of individual strings and to connect them to the inverter or optionally to a Level 2 Combiner Box. Smart design customized for each customers application.

Advanced surge-protection devices, fuse links and switch disconnector keep the correct operation and protection of the system. Integrated power monitoring provided by Transclinic monitoring system (optionally self-supplied from string voltage) allows to do the right surveillance of the PV site to guarantee the best performance of the system.

Additionally, PV Combiner Box fulfill the standard IEC/EN 61439-2 to offer a high reliability on the units supplied.

- 20 string input
- fuse holders in string input (+/-) including fuse links
- single string monitoring
- self powered by taking the required power directly from the DC strings
- surge protection device for DC system voltage
- string input with cable glands
- direct wall mount + plastic wall mount lugs

Technical Data

APPLICATION DATA



(Example of Combiner Box. Picture may differ from product)

 PV 220S0F0V000T2P010K0

 Order reference
 8000036761
 Rev 0

Operating ambient temperature range	-25 °C to +50 °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)	9.4 A at 50 °C ambient
Rated DC current per input (10h short-circuit at main output)	1.25 · Inc
Switch disconnector breaking & making capacity (acc. to IEC 60947-3)	400 A (DC21B 1000 V)
Circuit breaker breaking & making capacity (acc. to IEC 60947-2)	N/A
Contactor breaking & making capacity (acc. to IEC 60947-4-1)	N/A
Switch-disconnector / Circuit breaker / Contactor handle location	direct handle (inside enclosure)
DC earthing system	floating positive and negative
Surge protection on DC ports	1000V DC, type II, Imax = 40 kA, Up \leq 3.8/3.8 kV, aux. contact
Surge protection on monitoring supply ports	N/A
Surge protection on EIA RS-485 ports	N/A

Enclosure dimensions (H x W x D) 1056 x 852 x 350 mm Form factor cabinet with hinged door(s) Material glass-fiber reinforced polyester (GFRP) Fixing system direct wall mount + plastic wall mount lugs



INPUTS

75 - 25 mm² 75 - 25 mm² sconnectors 5 - 25 mm²
75 - 25 mm² sconnectors inputs
inputs
inputs
inputs
5 - 25 mm²
5 - 25 mm²
5 - 25 mm²
M10 bolt and nut connection (\leq 240 mm ²)
000 VDC input PSU)
000 VDC input PSU) II-scale)
II-scale)
II-scale)
+

Notes

Fuseholders with LED