



Combiner Boxes Zone Monitoring

10 up to 32 input - 1.000V

Technical data					
Type code	SB 1010	SB 1210	SB 1610	SB 2410	SB 3210
Combiner box	IA0.595.110	IA0.595.112	IA0.595.116	IA0.595.124	IA0.595.132
Max voltage (V _{cc})	1.000 V				
N° of DC+ input	10	12	16	24	32
N° of DC- input	10	12	16	24	32
Max. input short-circuit current (I _{sc} STC) ¹⁾	12,5 A		13,75 A	12,5 A	
Max. output short-circuit current (I _{sc} STC)	125 A	150 A	220 A	300 A	360 A
SPD protection	SPD Type II 15 kA / 40 kA				
Housing					
Housing	GRP (Glass fiber reinforced polyester)				
Door / Opening angle / Lock	Blind /> 120° / Standard				
Housing Dimensions (DxWxH mm)	550x270x650				618x325x822
Weight	16 Kg	18 Kg	22 Kg	26 Kg	36 Kg
External protection degree	IP65 (outdoor installation)				
Open door protection degree	IP20				
Safety class	Class II				
Colour	RAL 7035				
Environmental data					
Operating temperature	-20° C / +50° C				
Storage	-40° C / +70° C				
Height above the sea ¹⁾	up to 4.000 m				
Humidity	0-95% (non condensing)				
DC input					
Input cable entry	nr 3 PG32 with 4 input each one		nr 4 PG32 with 4 input each one	nr 6 PG32 with 4 input each one	nr 8 PG32 with 4 input each one
Input connection	Directly on fuse holder				
Conductor cross section	4 - 6 mmq				
Fuse Type	10.3 x 38 - gPV Type curve				
Fuse size (A _{dc})	10 A to 25 A			10 A to 20 A	
N° fuse	20	24	32	48	64
DC Output					
Output cable gland ¹⁾	nr 1 M50x1.5 (with 4 education) per pole				
Clamping Area	17-38 mm				
Conductor material	Copper				
Terminal type	Copper bus-bar with M12 screw				
Voltage DC switch	1.000 V _{dc}				
Current DC switch (DC-21B) ¹⁾	160 A		250 A	400 A	

1) Derating of VN versus altitude. 1.0 % per 100 m from 2.001 m to 3.000 m.
1.2 % per 100 m from 3.001 m to 4.000 m.

(*) Contact factory for different value

Warnings: to feed the electronic devices of the string box control unit is required an

auxiliary external single-phase power supply 230 V_{ac} (L + N).
Please note that the string box doesn't contain blocking diodes.

Remark. Features not specifically listed in the present data sheet are not included in the product.



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