



# Combiner Boxes String Monitoring

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8 up to 24 input - 1.500V

## Technical data

Type code	SBC 0815	SBC 1215	SBC 1615	SBC 2015	SBC 2415
Combiner box	IA0.598.008	IA0.598.012	IA0.598.016	IA0.598.020	IA0.598.024
Combiner box with probe	IA0.598.008s	IA0.598.012s	IA0.598.016s	IA0.598.020s	IA0.598.024s
Max voltage (V <sub>dc</sub> )	1.500 V				
N° of DC+ input	8	12	16	20	24
N° of DC- input	8	12	16	20	24
SPD protection	SPD 1.500 V <sub>dc</sub> CLASS II				
Electronic equipment onboard	Monitor single string current Monitor V <sub>dc</sub> Monitor SPD status Monitor internal temperature				
Electronic equipment for probe monitor	Analog input 0-5V/4-20 mA Analog input 0-10 V RTD PT100 4 wire Digital input dry contact				
Communication protocol	MODBUS RTU				
<b>Housing</b>					
Housing	GRP (Glass fiber reinforced polyester)				
Door / Opening angle / Lock	Blind /> 120° / Standard				
Housing Dimensions (DxWxH mm)	550x270x700		670x325x862		
Weight	18.7 Kg	20.4 Kg	24.1 Kg	25.7 Kg	26.8 Kg
External protection degree	IP65				
Open door protection degree	IP20				
Safety class	Class II				
Colour	RAL 7035				
<b>Environmental data</b>					
Operating temperature	-20° C / +50° C				
Storage	-25° C / +60° C				
Height above the sea <sup>1)</sup>	up to 2.000 m				
Humidity	0-95% (non condensing)				
<b>DC input</b>					
Input cable entry	Cable gland				
Input connection	Directly on fuse holder				
Conductor cross section	4 - 6 mmq				
Fuse Type	10x85 gPV Type curve				
Fuse size (ADC)	Up to 30 A				
N° fuse	16	24	32	40	48
Range current sense	± 25A				
Accuracy	0.5% f.s.				
Current reading tipology	Hall effect				
<b>DC Output</b>					
Output cable gland <sup>1)</sup>	2xPG29			2xPG36	
Clamping Area	18-25 mm				
Conductor material	Copper				
Terminal type	Screw M12				
Voltage DC switch	1.500 V <sub>dc</sub>				
Current DC switch (DC-21B) <sup>1)</sup>	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<sub>ac</sub> (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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