

STRING BOXES WIRED

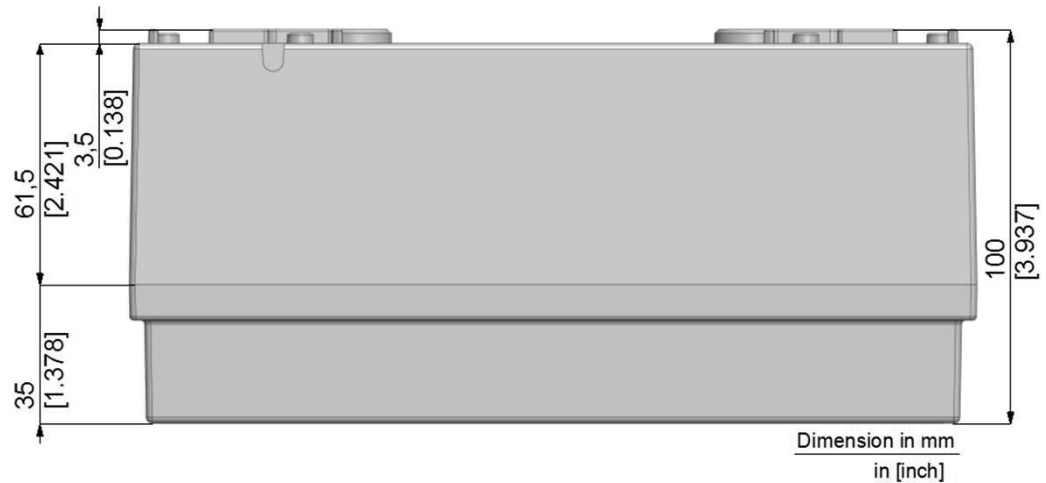
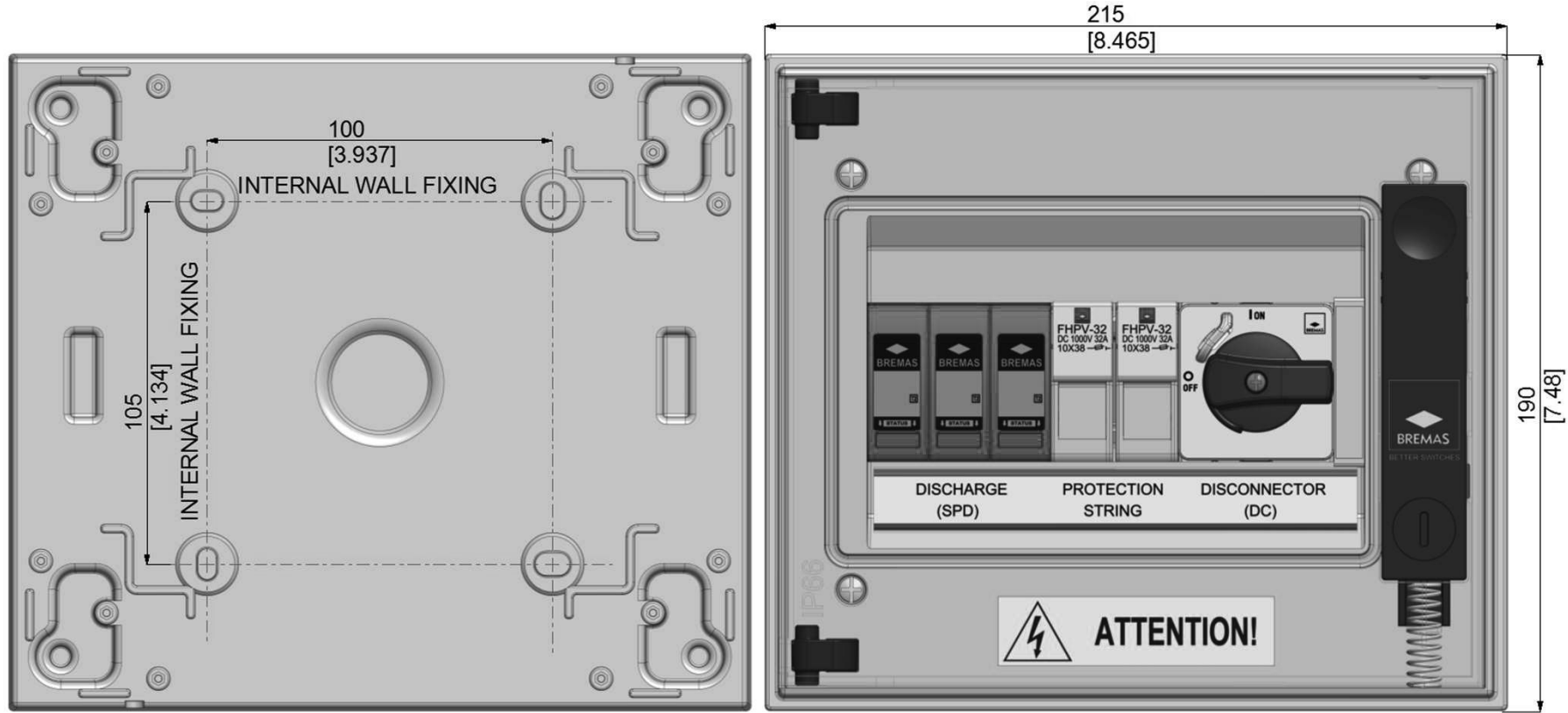
String boxes

edition 00 : data 09/06/2025



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 ISO 9001 Certified Quality System

MBD10A11T2F20



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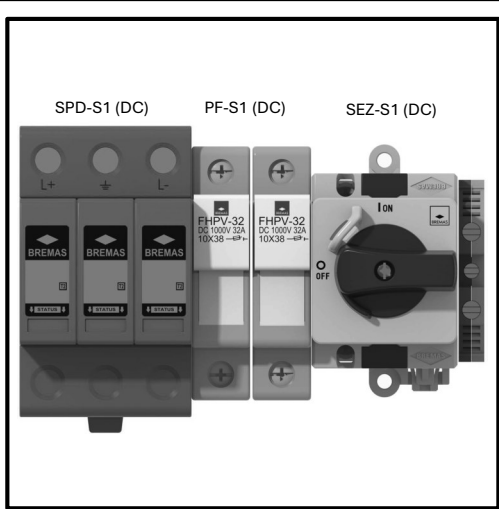
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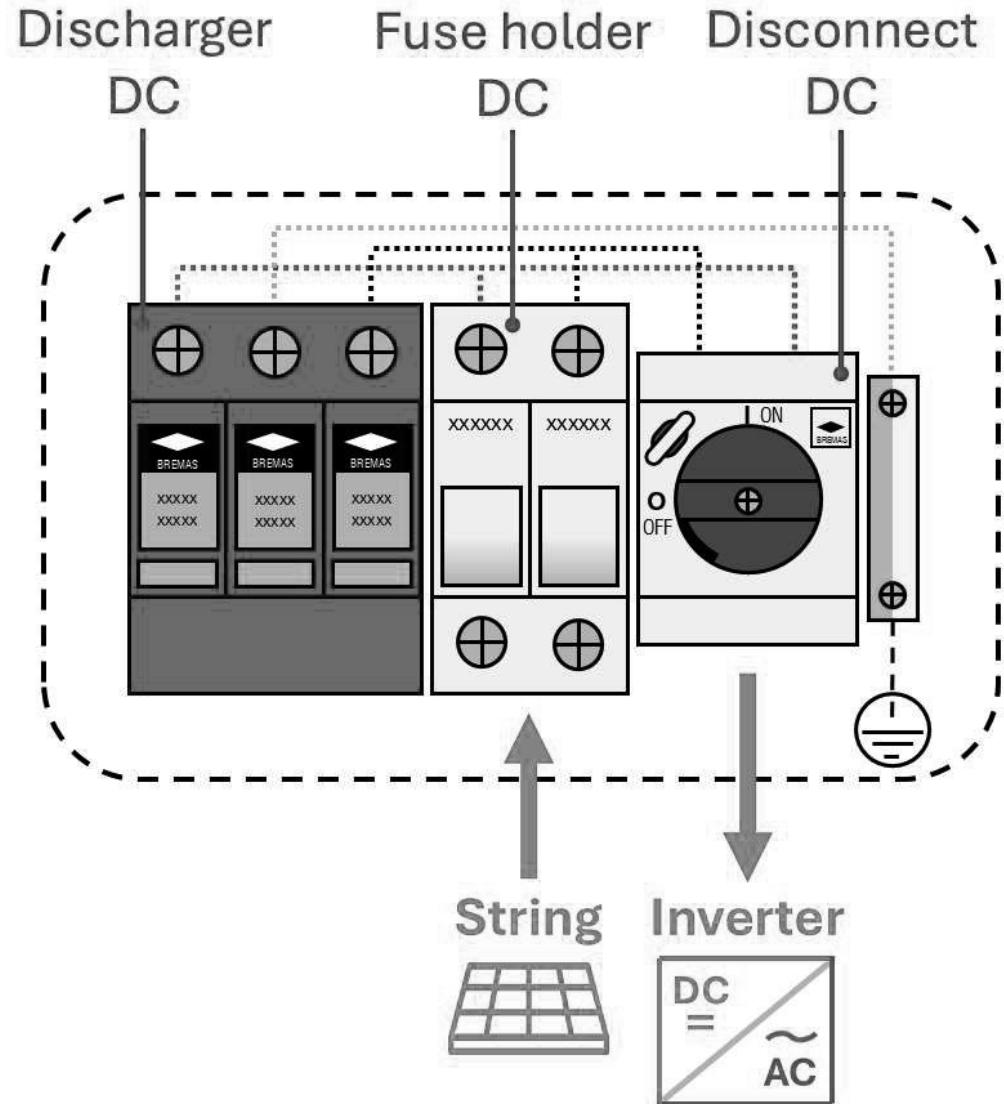


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INSERTION SCHEME

MBD10A11T2F20
DC Panel – 1 String 1000Vdc



BREMAS ERSCE SPA

Declares that the electrical panel shown complies with the provisions of the Community directives including the latest amendments, and with the relevant national implementing legislation «Low Voltage Directive 2006/95/EC» and that the following national and international harmonised and technical standards have been applied – CEI 17-13/1, EN IEC 61439-1/2, CEI 82-25.

ELECTRICAL CHARACTERISTICS

DC SECTION

DC

Rated values			
Rated operating voltage	Udc	V	1000
Rated operating current	Idc	A	20
Nr. of inputs		Nr	1
Nr. of independent MPPT inputs		Nr	1
Load disconnection			
Rated thermal current	Ith	A	50
Utilization category			PV1
Rated operating current at 600V	Ie	A	32
Protection against overload and short circuit			
Nr. Poles		Nr	2
Rated voltage	Udc	V	1000
Rated operating current (fuses)	Ie	A	20
Fuse size		mm	10x38
Class of operation			gPV
Breaking capacity		kA	30
Overvoltage protection			
Test class acc. to EN61643-11 / Type			II/C
Maximum continuous operating voltage	Ucpv	V	1000
Nominal discharge current (8/20 μs)	In	kA	20
Maximum discharge current (8/20 μs)	I _{max}	kA	40
Impulse current (10/350 μs)	I _{imp}	kA	-

WIRING CHARACTERISTICS

Circuit	Cable type	Colour	Min. section
Main DC circuit (+)	STYLE 10269 AWG10 105°C 1000V UL	Red	6 mmq
Main DC circuit (-)	STYLE 10269 AWG10 105°C 1000V UL	Black	6 mmq
Earth	FS17	Yellow/Green	6 mmq
Main AC circuit (phases)	FS17	Black	6 mmq
Main AC circuit (neutral)	FS17	Blue	6 mmq
Auxiliaries 230V	FS17	Black / Blue	1,5 mmq
Auxiliaries 24V / 12V	FS17	Red / White	1,5 mmq
Construction characteristics			
Form of separation (IEC 439-1)		Form	1
Protection degree (enclosure)		IP	65
Protection class (enclosure)			II
Material (enclosure)			Polycarbonate
Operational ambient temperature		°C	-25 ÷ +50
Storage ambient temperature		°C	-40 ÷ +85
Humidity – Permitted range			
Colour (enclosure)			RAL 7035
Accessibility			from the front
Cables entry and exit			through the bottom

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WIRING DIAGRAM

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DC Panel – 1 String 1000Vdc

