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Firefighter Safety Switch

Rapid shutdown switch for solar installations

Up to 10 strings

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series **CRS** Firefighter Safety Switch

The perfect solution to protect residential, industrial or commercial photovoltaic systems



CRS/1

Strings: 1 or 2



CRS/2

Strings: 3, 4 or 5



CRS/3

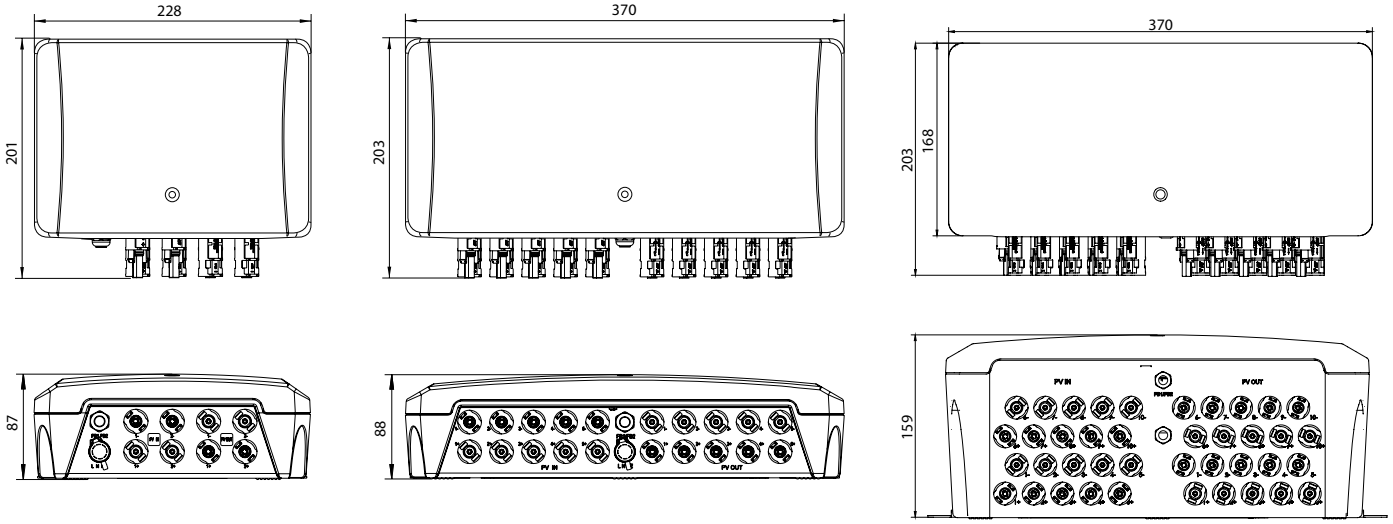
Strings: 6, 8 or 10

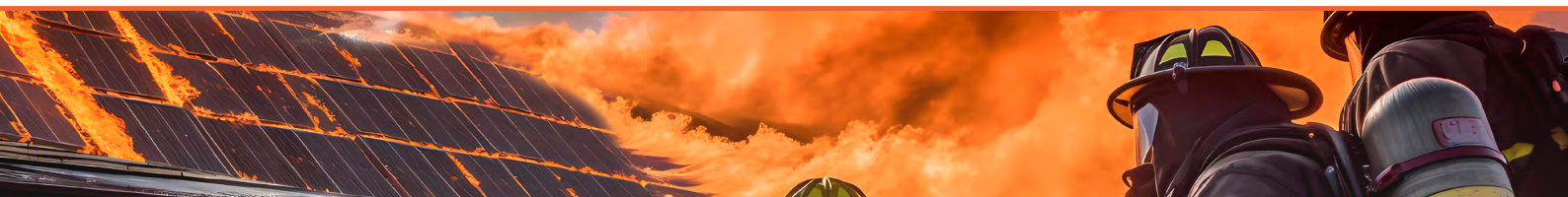
KEY FEATURES



- Suitable up to 10 strings / circuits
- Maximum current 38A
- Maximum cricuit voltage 1500 V DC
- Protection degree IP66
- Poles: 2P, 4P, 6P, 8P, 10P, 12P, 16P, 20P
- Isolation switch is TUV, CE, CB, SAA certificated
- Waterproof vent valve to avoid condensation inside the enclosure
- Built in temperature sensor that allows automatic shut down of the system when exceeds 70ºC inside the enclosure

DIMENSIONS





TECHNICAL DATA

According to EN60947-3, AS/NZS 60947-3

Standard		DC-PV1 / DC-21B
Thermal current 40ºC (Ith)	A	50
String voltage	Vdc	up to 1500
String current	A	up to 38A
Working voltage	Vac	100 - 270
Rated voltage	Vac	230
Rated current	mA	30
Starting (loading) current	mA (AVG)	100
Action current (max)	mA	300
Operating temperature	°C	-20°C ... +50°C
Maximum temperature before automatic shutdown	°C	>70°C
Storage temperature	°C	-40°C ... +85°C
Protection rating		IP66
Overvoltage protection category		II
Mechanical life without load	cycles	10000 (2P, 4P, 6P, 12P) / 3000 (8P, 10P, 16P, 20P)
Cable section	mm^2	4-6

According to IEC60947-3 Utilization category DC-PV1 and DC-21B*			Poles	Strings	Code
800V	1000V	1500V			
38A	38A	32A	2	1	CRS005002P0
38A	38A	32A	4	2	CRS005004P0
38A	38A	32A	6	3	CRS005006P0
38A	38A	32A	8	4	CRS005008P0*
38A	38A	32A	10	5	CRS005010P0*
38A	38A	32A	12	6	CRS005012P0
38A	38A	32A	16	8	CRS005016P0*
38A	38A	32A	20	10	CRS005020P0*

1. The fireman switches off the AC current manually to extinguish the fire without risk of electric shock.
2. The inverter will interrupt AC current, when it detects electric circuit loss.
3. When the AC power is lost, the Firefighter Safety switch automatically isolates the DC current of the solar source.

Automatic disconnection due to temperature >70º C.





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The switch specialist

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TDM-CRS-ENG-092026