

Fire Fighter Safety Switch for Solar Building

BFS-S Series



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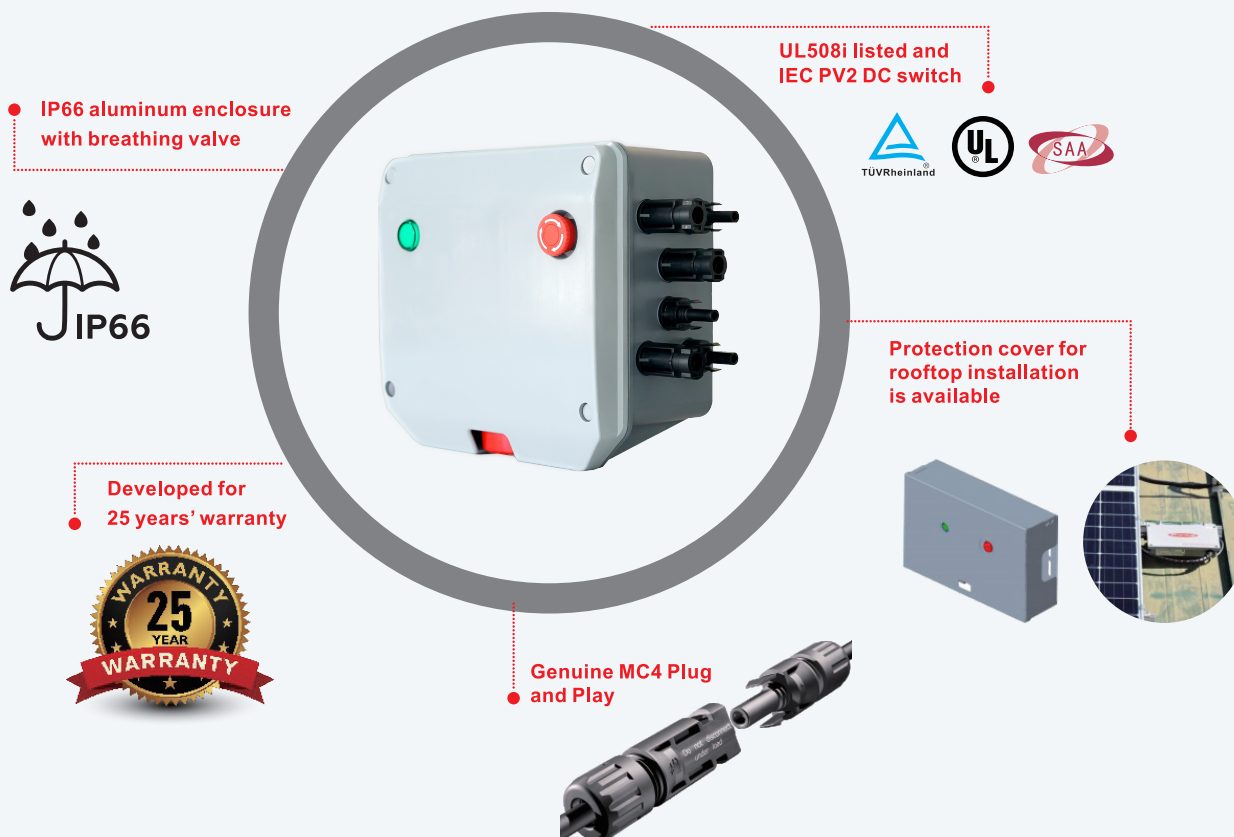
Application

ZBENY The BFS-S Series fire safety switch is a string level load break disconnect solution for solar rooftop fire protection. It should be installed on the rooftop or the place as closer to the panels. Providing DC power mechanical, complete isolation and disconnection in case of a fire emergency on solar building. Protects firefighter from a solar electric shock.

With AC power trigger on the ground for easier and faster initiation.
Over-temperature reach 85°C automatic isolation.

Top protection for solar rooftop from top company.

Features

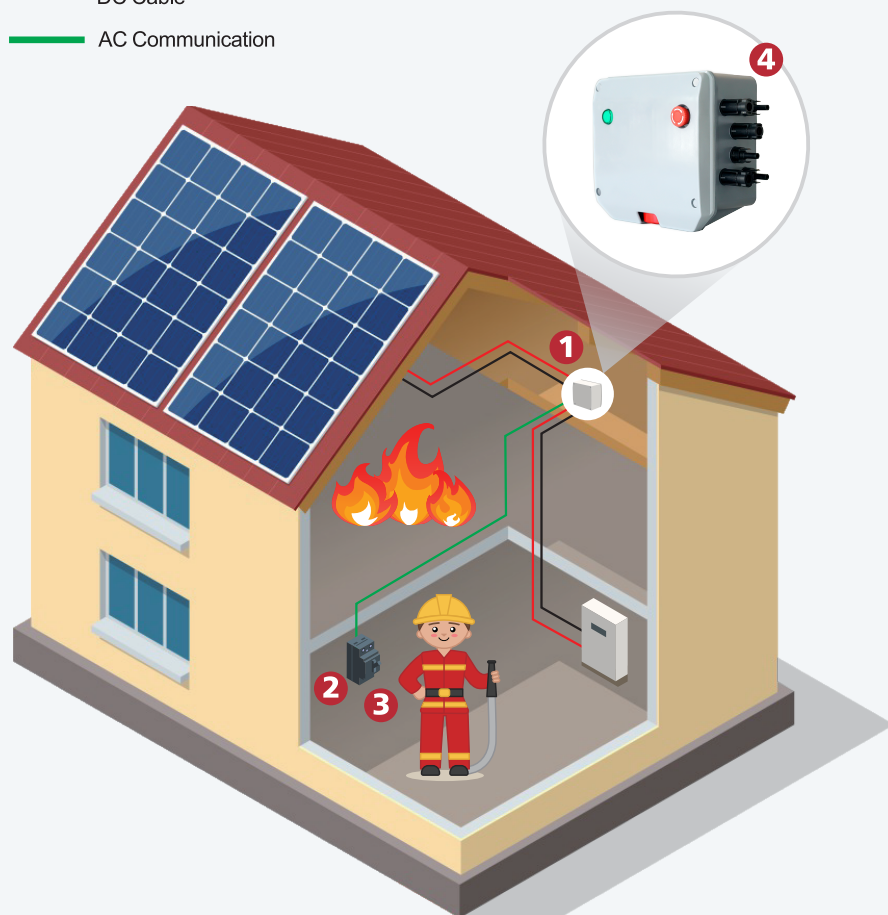


Specifications

Models	BFS-S1	BFS-S2	BFS-S3
Max DC voltage IEC60947-3 PV2		1500VDC	
Max DC current IEC60947-3 PV2		50ADC	
Number of Strings	1 string	2 strings	3 strings
Protection Degree		IP66	
Certificate		TUV	
DC switch		UL508i, TUV	
Mechanical Operating Cycles		10000	
Electric Operating Cycles (1000V 30A) (700V 50A)		6000	

How the solution works?

- DC Cable +
- DC Cable -
- AC Communication



1 Over Temperature Protection Automatic Shutdown

When a temperature over 85 is detected, the fire safety switch disconnects and isolates DC

2 Main AC Power Shutdown by Manual

The fireman need to shutdown the AC power and make a safe zone without any risks of electric shock, especially in the house with solar power system. After the AC power loss, the fire safety switch complete isolates the DC power.

3 AC Power Loss triggers DC Power OFF Automatic

When there is any failures lead AC power loss, the fire safety switch will automatic OFF and isolate the solar PV power to make safety zone for firefighters at the mean time.

4 In the case the Firefighter Safety Switch is installed on the rooftop, Firefighter on rooftop presses and OFF the emergency switch on the box. That keeps DC power isolation and disconnect even the AC power is back.

