

Gawe

Solartec



***Firefighter
Safety Switch***

Firefighter safety switch

Photovoltaic panels are exposed to risks of overload or insulation issues that can lead to fires. Gave Electro offers a device designed to safeguard photovoltaic installations in emergencies or fire situations.

In the event of a fire in the solar panels, the system continues to generate energy, with the current flowing through the cables thus creating a hazardous situation. The SFF quickly interrupts the current to ensure the safety of the entire installation.

1

Overheating detection

The SFF switch is equipped with sensors that monitor temperature and detect possible overheating. If the temperature exceeds 70°C, the switch automatically breaks the current flowing from the panels to the inverter.

2

Manual disconnection

The switch can be remotely operated from a safe location using a manual switch or an emergency button. This ensures that firefighters and emergency personnel can work safely by completely disconnecting the photovoltaic generation.

3

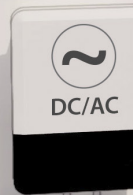
Control circuit

The SFF devices are equipped with a feedback circuit that enables verification of the device status condition. This control circuit also supports integration with other safety components, ensuring comprehensive protection of the installation.



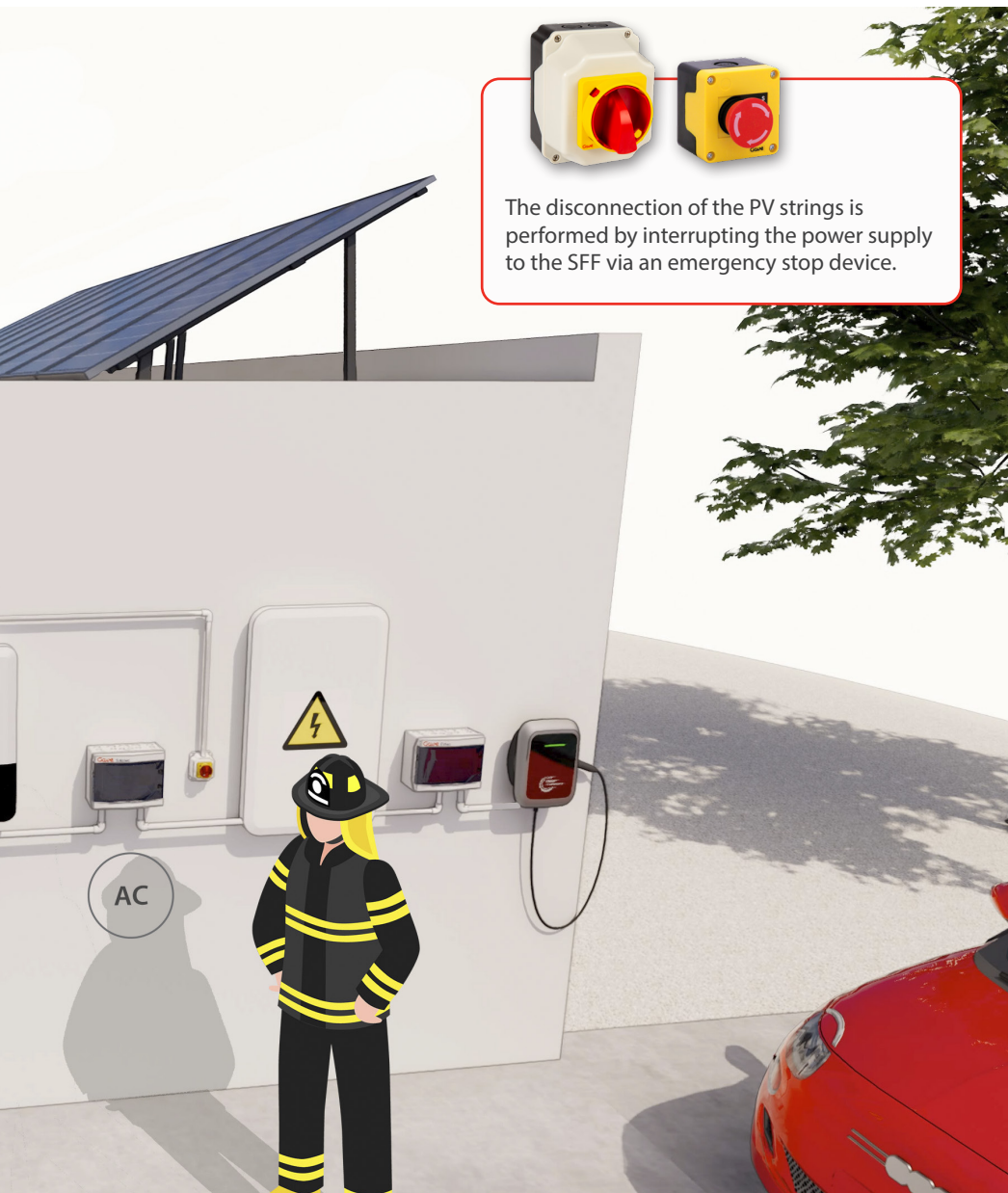
Main advantages

- ✓ Plug&Play installation.
- ✓ Temperature monitoring (+70°C). Automatic disconnection.
- ✓ Remote manual disconnection.
- ✓ Integrated control circuit.
- ✓ Status signaling.





The disconnection of the PV strings is performed by interrupting the power supply to the SFF via an emergency stop device.



References



Fire safety switch
1 String

215x194x103

Ref. SFF150



Fire safety switch
2 Strings

215x194x103

Ref. SFF150-2

SFC control equipment

When integrating SFF devices into industrial installations, it may be appropriate to centralise their management in an SFC unit located in the control room.

The integration equipment includes:

- Centralised local disconnection.
- Remote disconnection/reconnection.
- Local and remote signalling.



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