

SolarEdge Firefighter Gateway



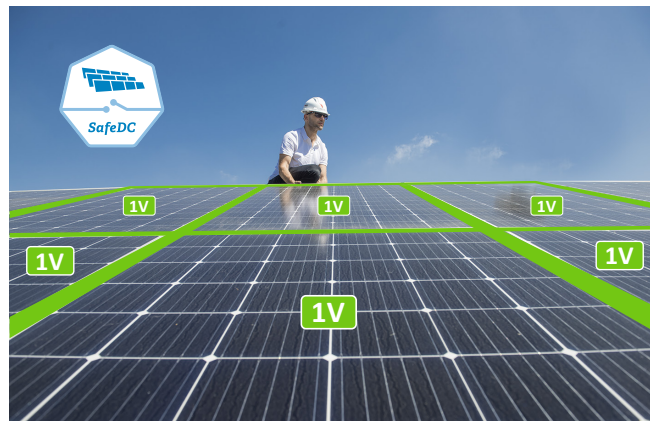
Protect property, satisfy insurance requirements and support emergency services with a centralised safety management solution

Overall, PV systems are safe, reliable and do not inherently pose a danger to people or property. However, even the smallest of risks have the potential to cause damage. For example, if for any reason a building fire occurs, without proper safety features, the presence of a PV system could hamper firefighting efforts. This is because as long as there is sunlight, solar panels produce power at high DC voltages which poses an electrocution risk.

The Firefighter Gateway provides centralised safety management of SolarEdge systems - allowing firefighters to immediately stop production of a SolarEdge PV system, either manually through an emergency stop button or automatically through a fire alarm control panel system using the unique SolarEdge SafeDC™ feature.

/ How Does SafeDC™ Work?

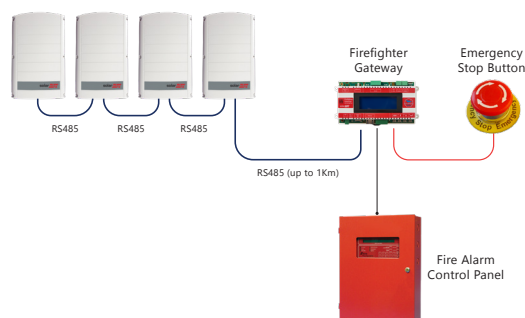
SafeDC™ is an embedded feature in all SolarEdge PV systems. Unlike traditional string inverter systems, SolarEdge inverters are designed to automatically switch into safety mode when the AC supply is shut down. In safety mode, the output voltage of each solar panel is reduced to a touch-safe 1V level.



/ Making Commercial PV Safer

Where it fits

- /// The Firefighter Gateway is typically installed alongside the Fire Alarm Control Panel, as part of a SolarEdge system
- /// An emergency stop button can also be installed to provide a manual override



Maximum flexibility with two modes of operation

- /// In **Manual Mode**, the system can be manually shut down in non-emergency situations
- /// In **Automatic Mode**, shutdown occurs automatically when the fire alarm control panel is triggered. No external interaction is required. Once activated, the Firefighter Gateway signals to the SolarEdge Monitoring Platform that the solar PV system has been shut down, and an alert will be generated

Built-in display

A built-in display shows real-time generation figures from the PV system during normal operation. In an emergency, it will show the system voltage and confirm when the AC power has been shut down and that the DC voltage from the panels has been reduced to a touch-safe level - allowing emergency services to address the situation.

Single supplier. One ecosystem.

Simple to install, the Firefighter Gateway is a single SolarEdge component that works seamlessly within the SolarEdge ecosystem. All service and warranty issues are addressed to SolarEdge, avoiding the need to deal with additional third-party suppliers.

/ Key Benefits

- /// Centralised safety management of SolarEdge systems
- /// Manual & automatic system DC shutdown
- /// Real-time indication of system DC voltage for safety assurance
- /// Emergency stop button for the entire PV system
- /// Notification to the SolarEdge Monitoring Platform on system shutdown
- /// Part of the complete SolarEdge PV ecosystem
- /// 5-year warranty

