



CONNECTOR PROTECTION

FIPRON BOX MC4 PROTECT

A protective module with an integrated Fipron Cord fire-suppression system for solar MC4 connectors.



KEY BENEFITS

Fully autonomous - passive suppression, no power or wiring needed

Protects MC4 connectors from fire and localized overheating

Sealed to IP67 - resists moisture, dust, UV and mechanical stress

Flame-retardant, self-extinguishing UL94 V0 PETG enclosure

Activates in under 5 seconds and prevents re-ignition

Recyclable, halogen-free and maintenance-free for 10 years

DESIGN & MATERIALS

| | |
|-----------|-----------------------------------|
| Enclosure | 3D-printed PETG FR, 2.5 mm wall |
| Size | 128 × 33 mm (length × Ø) |
| Weight | ≈ 52 g |
| Colour | Gray or black (customer's choice) |
| Mounting | Snap-in: cable, panel or in-line |
| Agent | 1.2-1.5 g gas-forming cord |

The FIPRON Box MC4 Protect is a sealed module that shields the MC4 connectors of solar panels from fire, localized overheating and the elements - moisture, dust, UV and mechanical stress. Its integrated passive Fipron Cord activates automatically at critical temperature, needing no power, no wiring and no maintenance.

HOW IT WORKS

A microencapsulated Fipron Cord runs inside the enclosure, right beside the MC4 connector. When the temperature reaches about **170-180 °C** the cord decomposes and releases a neutral, gas-forming agent that locally extinguishes the fire and prevents re-ignition - in **under 5 seconds**, with no power supply required.

WHERE TO USE IT

Designed for DC photovoltaic systems up to **1500 V** - solar farms, rooftop PV arrays and off-grid power plants.

Suitable for outdoor installation or inside technical cabinets, mounted on the cable, on the panel or in-line.

AT A GLANCE

| | |
|-------------------------|--------------------|
| Response temperature | +170 °C to +180 °C |
| Operating temperature | -40 °C to +70 °C |
| Protection class | IP67 (IEC 60529) |
| Flammability | UL94 V0 |
| Max voltage / current | 1500 V DC / 35 A |
| Service life / warranty | 10 years / 3 years |



IP67 · UL94 V0

Sealed & self-extinguishing



IEC 62852

PV DC connector standard



RoHS · REACH

No hazardous substances