

## SolarTech Power Solutions

# Swedish explosion-proof solar panel specifications and dimensions



## Overview

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What is an explosion proof solar panel?

An explosion proof solar panel is a crucial component in solar-powered systems. This 150-watt solar panel, operating on 12V (nominal) with a module efficiency rate of 14.6 percent, is designed to be safe for use in hazardous environments. At maximum power, the unit offers 18.1V and a current of 8.3A, with a Class C application class and a 20A maximum fuse rating.

Do you offer explosion proof solar modules?

For applications in hazardous areas, (i.e. LNG, Oil & Gas installations), we offer explosion proof solar modules. Fully certified according latest ATEX and IECEx guidelines. 36 Series-connected high efficiency monocrystalline silicon perc solar cells generate a typical peak power of 190 Watts/9.39A at 20.23 Volts.

Are ATEX solar panels explosion-proof?

Enhanced Safety Features: Standard panels do not need to be explosion-proof, meaning they lack safety features of ATEX and IECEx-certified panels. For instance, while a typical solar panel might house its electrical connections in standard junction boxes, ATEX panels use explosion-proof junction boxes.

What are ATEX and IECEx solar panels?

ATEX and IECEx solar panels are photovoltaic panels certified for use in areas where explosive atmospheres may be present. These hazardous environments, defined under the ATEX (European) directive and IECEx (International) standards, can occur in locations where flammable substances like gases, vapours, or dust are present.

What are the standard testing conditions for solar panels?

Standard Specification for Explosion-Proof Level of Photovoltaic Panels  
What are the standard testing conditions for solar modules?

Standard testing conditions (STC): 1,000W/sqm irradiation level, AM 1.5 spectrum at 25°C cell temperature. Hazardous area certification by T&V according to NEN-EN-IEC 60079-0, 60079-7 and 60079-18 for Zone 0.

Can solar panels be used in a gas explosion hazard area?

They can also be used in zones 1 and 2 gas explosion hazard areas. At Orga we have an enviable track record in the design, engineering and supply of stand alone solar systems and there is so much more to them than just solar panels and batteries.

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### Contact Us

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