



## To be used in isolated systems

MSP135-Ex is a solar module with ATEX Classification on Categories 2 and 3, to be installed in potentially explosive atmospheres classified for Zone 1 and Zone 2.

## FEATURES

- Classification:  
GROUP II: Equipment on surface (no mining).  
ZONE 1: Category 2.  
ZONE 2: Category 3.  
ATMOSPHERE: GAS.
- 135W maximum power.
- 36 nos. silicon polycrystalline cells on 156 x 156mm shape.
- Cells encapsulated between EVA tempered glass and a back protective sheet from aluminium and polyester.
- High efficiency, even with low levels of sunlight.
- Maximum concentration and diffusion of light on cells.
- Lightweight anodized aluminium mounting frame, resistant to marine environment.
- Designed for maximum reliability and minimum maintenance.
- IP66 polyester junction box, with 2 nos. M25 ATEX glands.



The cells of the panel are encapsulated between a tempered glass cover and a back sheet from aluminium and polyester to provide maximum protection in the most extreme environmental conditions.

These panels have been designed for use in isolated hazardous areas where the installation of electrical mains supply is difficult.

**II 2 G Ex mb e II T5**

# MSP135-Ex

Power systems

## Solar Modules

! Specifications subject to change without previous notice.

### Specifications

Maximum power:	135 Wp.
Nominal voltage:	12 V.
Maximum power current (Impp):	7.63 A.
Short circuit current (Isc):	8.37 A.
Open circuit voltage (Voc):	22.1 V.
Maximum power voltage (Vmpp):	17.7 V.
Maximum system voltage:	1,000 V.
Number of cells:	36 nos. polycrystalline cells.
Power tolerance:	(+/-) 5%.

### Materials and environment

Temperature range:	From -20° to +40°C.
Cells of the panel:	Polycrystalline.
Material hardware:	Aluminium mounting frame.
NOCT:	(+/-2) 49°C.
Dimensions (+/-2.5 mm) (L x W x H):	1500 x 668 x 136 mm.
Weight:	14 kg.
Watertightness degree:	IP 66.

### Standards and Certifications

Gas: II 2G Ex mb e II T5

Group II: Equipment in surface (no mining).

Zone 1 and Zone 2: Category 2.

General requirements: EN 60079-0 Standard.

Equipment protection by Encapsulation: "mb", EN 60079-18 Standard.

Equipment protection by Increased Safety: "e", EN 60079-7 Standard.

Temperature Class: T5. 100°C.

Protection against Gas: (G).

Atex certificate n°: ISSep08ATEX052X

