



To be used in isolated systems

The MSP185-Ex Photo Voltaic Solar Panel is an ATEX & IECEx Ex eb mb certified product for Zone 1 & 2 gas hazardous area applications. The cells of the panel are encapsulated between a tempered glass cover and an EVA pottant, to provide maximum protection in the most extreme environmental conditions.

FEATURES

- Classification:
GROUP II: Equipment on surface (no mining).
ZONE 1 & 2: Category 2.
ATMOSPHERE: GAS.
- 185 W maximum power.
- Polycrystalline cells.
- Cells encapsulated between tempered glass cover and an EVA potting compound.
- High efficiency, even with low levels of sunlight.
- Maximum concentration and diffusion of light on cells.
- Lightweight anodized aluminium mounting frame. Terminal enclosure made of GRP. Resistant to marine environment.
- Designed for maximum reliability and minimum maintenance.
- IP66 junction box, with 2 nos. M20 ATEX glands.
- All panels are supplied with 6 mm stainless steel earth studs.



Typical applications for this new energy & cost saving concept are: to monitor remote pipelines and unmanned offshore oil & gas installations where the location and the proximity of a hazardous area, deems conventional power sources and mains power to be less economical.

Combined with a compatible inverter housed in our Ex eb enclosures, it is suitable for AC applications.

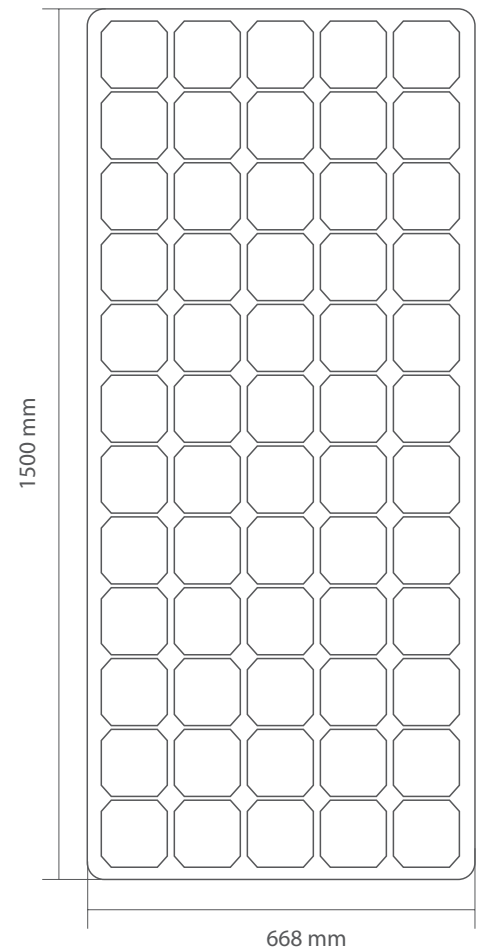
II 2 G Ex eb mb IIC T4 Gb

MSP185-Ex

Power systems

Solar Modules

! Specifications subject to change without previous notice.



Specifications

Maximum power:	185 Wp.
Maximum Power Voltage:	20.14 V.
Maximum power current (I_{mpp}):	9.09 A.
Short circuit current (I_{sc}):	9.57 A.
Open circuit voltage (V_{oc}):	24.41 V.
Maximum power voltage (V_{mpp}):	41.76 V.
Maximum system voltage:	800 V.
Power tolerance:	-5/ +10 %.

Materials and environment

Temperature range:	From -20° to +60°C.
Cells of the panel:	Polycrystalline.
Material hardware:	Anodized aluminium mounting frame.
NOCT:	45°C.
Dimensions (+/-2.5 mm) (L x W x H):	1500 x 668 x 125 mm.
Weight:	14 kg.
Watertightness degree:	IP 66.

Standards and Certifications

Gas: II 2 G Ex eb mb IIC T4 Gb
Group II: Equipment in surface (no mining).
Zone 1 & 2: Category 2.
General requirements: EN 60079-0 Standard.
Equipment protection by Encapsulation: "mb", EN 60079-18 Standard.
Equipment protection by Increased Safety: "eb", EN 60079-7 Standard.
Temperature Class: T4 ≤ 135°C.
Protection against Gas: (G).
ATEX Certificate No.: TPS 25 ATEX 131343 001X
IECEx Certificate No.: IECEx TPS 25.0022 X