

Zone 1 explosion proof solar power module designed to be used in the Orga solar power systems.



Key features

- Double glass technology
- Optimal configuration, suitable for all types of demanding applications
- Individual selected and electronically matched solar cells
- Suitable for Zone 1 and Zone 2 areas with gas explosion hazard
- Excellent mechanical properties and reliability

Standards/Certification

- Complies with IEC 61215 of June 2005
- Cenelec EN 60079-0, EN 60079-7 and EN 60079-18
- KEMA 06ATEX0287 X; Ⓢ II 2G Ex e mb II T4

Performance characteristics

- Typical maximum power point (mpp): 108W +/-5% (minimum power 102.6W)
- Output voltage at 108W (Vmpp): 20.1Vdc
- Current at 108W (Impp): 5.4A +/-10%
- Short circuit current: 5.8A
- Open circuit voltage: 23.9Vdc

Electrical characteristics

- Universal GRP junction box with 4mm² terminals
- Junction box including two M25x1.5 Ex e cables glands with gland plugs
- Bypass diodes included
- System voltages of 24 volt and higher can be obtained by connecting modules in series
- Typical data at Standard Test Conditions (STC): 1,000 W/m² irradiance level, AM 1.5 spectrum and 25°C cell temperature
- Designed for use in positively grounded solar systems. For systems with negatively ground load, consumers power supply to load is via an isolated DC/DC converter provided as a part of the Orga solar power supply system

Physical characteristics

- Dimensions (L x W x H): 1271 x 554 x 70mm
- Degree of protection: IP66
- Weight: 20kg
- Operating temperature range: -40°C to +40°C
- Solar cells are encapsulated between high transmission tempered glass
- Anodised aluminium frame for easy mounting

System design, control and monitoring

- Optional non-metallic cover to protect the Solar panel during installation, commissioning and drilling against dirt and falling objects
 - MUD resistant
 - Impact resistant
 - UV stable
 - Lightweight: 3 kg
 - Stackable

OSP108EX

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