



SPA 280 Ex nAC II T5, Solar Panel



II 3 G

The SPA 280 Photo Voltaic Solar Panel is an ATEX Ex nAC certified product for Zone 2 gas hazardous area applications. The cells of the panel are encapsulated between a tempered glass cover and are EVA pottant - to provide maximum protection in the most extreme environmental conditions.

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 manpower to be less economical.

Complimented by other JCE Group products such as: hazardous area batteries and EExd control enclosures, the SPA 280 can be supplied as part of a complete control and monitoring system.

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

Materials and Finish

Aluminium mounting frame.
Terminal enclosure made of GRP
with 2 Exe ATEX M25 glands.

Protection Grade

The terminal enclosure provides
Ingress protection to IP66

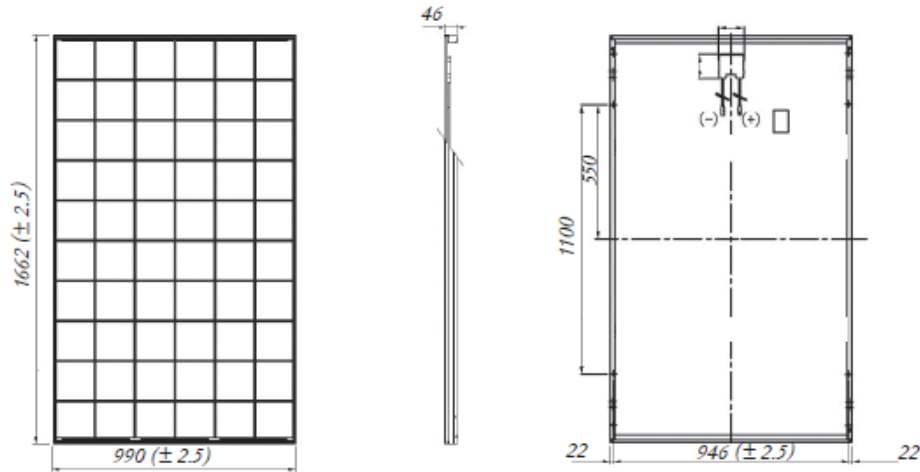
Earthing

All panels are supplied with 6mm
stainless steel earth studs.

Certification

ATEX Group II Category 3 Gas

Dimensions



Technical Data

ELECTRICAL PERFORMANCE

At 1000 W/m²(STC)*

Maximum Power	[W]	265
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	31
Maximum Power Current	[A]	8.55
Open Circuit Voltage (Voc)	[V]	38.3
Short Circuit Current (Isc)	[A]	9.26

At 800 W/m²(NOCT)**

Maximum Power	[W]	191
Maximum Power Voltage	[V]	27.9
Maximum Power Current	[A]	6.85
Open Circuit Voltage (Voc)	[V]	35.1
Short Circuit Current (Isc)	[A]	7.49
NOCT	[°C]	45

Power Tolerance	[%]	+5/-3
Maximum Reverse Current IR	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of Voc	[V/°C]	-0.36
Temperature Coefficient of Isc	[A/°C]	-0.06
Temperature Coefficient of Max. Power	[W/°C]	-0.45
Reduction Of Efficiency (from 1000W/m ² to 200 W/m ²)	[%]	3.3

DIMENSIONS

Length	[mm]	1662 (+/-2.5)
Width	[mm]	990 (+/-2.5)
Depth/ incl. Junction Box	[mm]	146
Weight	[kg]	23
Junction Box	[mm]	160 x 160 x 92
IP Code		IP66

CELLS

Number per Module		60
Cell Technology		Polycrystalline
Cell Shape (Square)	[mm]	156 x 156
Cell Bonding		3 busbar

CERTIFICATION

Ex Protection		Ex nAC II T5
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* Electrical values under standard test conditions(STC): irradiation of 1000 W/m², airmass AM 1.5 and all temperature of 25 °C

** Electrical values under normal operating all temperature (NOCT):irradiation of 800 W/m², airmass AM 1.5 wind speed of 1m/s and ambient temperature of 20 °C

*** 10 year or 90% of the minimally specified power P under standard test conditions (STC)

**** 20 years on 80% of the minimally specified power P under standard test conditions (STC)