Plant Products
Industrial Supplier

Ex Solar Panel SPA-130A

The SPA 130A Photo Voltaic Solar Panel is a **Zone 1 ATEX Ex mb e** certified product. The cells of the panel are encapsulated between a tempered glass cover and are EVA pottant - with an aluminium polyester protected back sheet 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 130A can be supplied as part of a complete control and monitoring system.

Combined with a compatible inverter housed in our EJB range of EExd enclosures, it is suitable for AC applications.

Materials and Finish

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

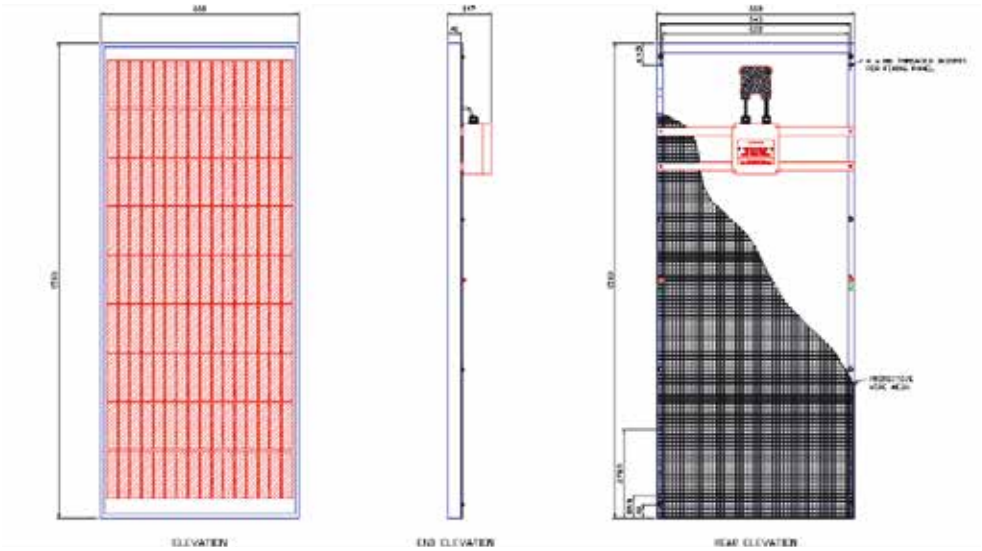
Earthing

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

Ratings and Approvals

Categories -	Ex II 2 G
Codes -	Ex mb e II T5
Protection Grade -	IP66
Certificate Nos -	ISSeP08ATEX052X

Dimensions



Technical Data

ELECTRICAL PERFORMANCE

At 1000 W/m²(STC)*		
Maximum Power	[W]	135
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	17.7
Maximum Power Current	[A]	7..63
Open Circuit Voltage (Voc)	[V]	22.1
Short Circuit Current (Isc)	[A]	8.37
At 800 W/m²(NOCT)**		
Maximum Power	[W]	95
Maximum Power Voltage	[V]	15.6
Maximum Power Current	[A]	6.1
Open Circuit Voltage (Voc)	[V]	19.9
Short Circuit Current (Isc)	[A]	6.82
NOCT	[˚C]	49
Power Tolerance	[%]	5/-5
Maximum Reverse Current IR	[A]	15
Series Fuse Rating	[A]	15
Temperture Coefficient of Voc	[V/˚C]	-0.08
Temperture Coefficient of Isc	[A/˚C]	0.00501
Temperture Coefficient of Max. Power	[W/˚C]	-0.614
Reduction Of Efficiency (from 1000W/m² to 200 W/m²)	[%]	5.8

DIMENSIONS

Length	[mm]	1500 (+/-2.5)
Width	[mm]	668 (+/-2.5)
Depth/ incl. Junction Box	[mm]	136
Weight	[kg]	19
Junction Box	[mm]	160 x 160 x 92
IP Code		IP66

CELLS

Number per Module		36
Cell Technology		Polycrystalline
Cell Shape (Square)	[mm]	156 x 156
Cell Bonding		3 busbar

CERTIFICATION

Ex Protection	Ex mb e II T5
Certification No.	ISSep08ATEX052X

* Electrical values under standard test conditions(STC): irrediation of 1000 W/m², airmass AM 1.5 and all temperature of 25 ˚C

** Electrical values under normal operating all temperature (NOCT): irrediation of 800 W/m², airmass AM 1.5 wind speed os 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)