







ATEX 🥨





Ex Solar Panel SPA-230

The SPA 230 photo voltaic Solar Panel is a **Zone 2 ATEX Ex ec mc** certified product for 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 Ex d control enclosures, the SPA 230 can be supplied as part of a complete control and monitoring system.

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

Materials and Finish

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

Earthing

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

Ratings and Approvals

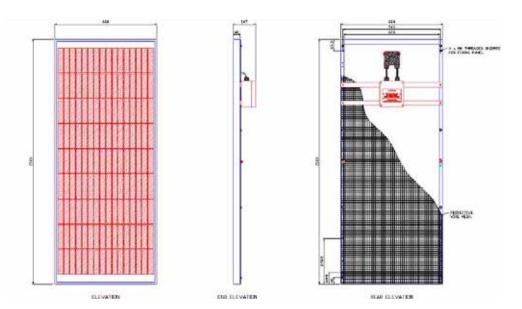
⟨£x⟩ II 3 G Categories -

Codes -Ex ec mc IIC T4 Gc

Protection Grade -IP66

Certificate Nos -ATEX Group II Category 3 Gas

Dimensions



Technical Data

ELECTRICAL PERFORMANCE			
At 1000 W/m ² (STC)*			
Maximum Power	[W]	140	
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	[%]	5.8

DIMENSIONS				
Length	[mm]	1500 (+/-2.5)		
Width	[mm]	668 (+/-2.5)		
Depth/ incl. Junction Box	[mm]	136		
Weight	[kg]	14		
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		

- * Electrical values under standard test conditions(STC): irrediation of 1000 W/m², airmass AM 1.5 and all temperature of 25 $^{\circ}\text{C}$
- ** 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 $^{\circ}\text{C}$
- *** 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)

