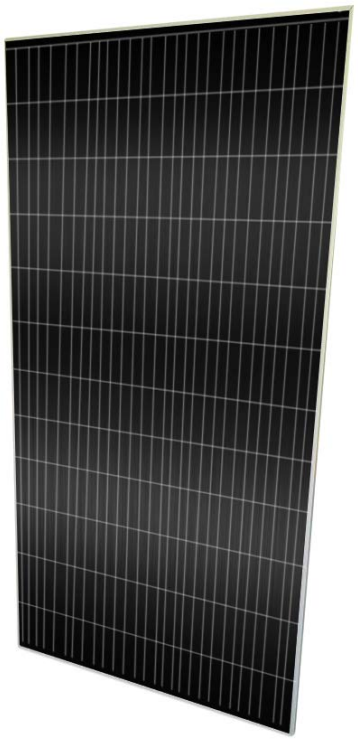
Ex Solar Panel SPA-365



The SPA-365 Photo Voltaic Solar Panel is an ATEX & IECEx Ex ec mc certified product for Zone 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.

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.

Complimented by other JCE Group products such as: Ex e hazardous area batteries and Ex d control enclosures, the SPA-365 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

Anodised aluminium mounting frame. Terminal enclosure made of GRP.

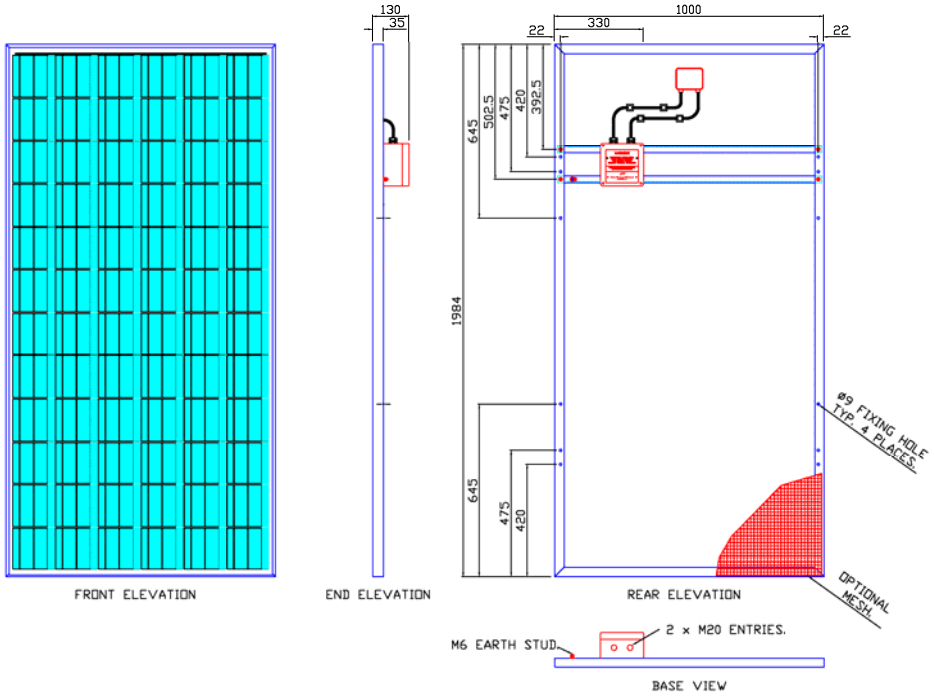
Earthing

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

Ratings and Approvals

Categories -	II 3 G
Codes -	Ex ec mc IIC T4 Gc
Protection Grade -	IP66
Certificate Nos -	ITS 18 ATEX 4030 28X IECEx ITS 18.0001 X
Temperature -	-20°C to +50°C

Dimensions



Technical Data

ELECTRICAL PERFORMANCE		
At 1000 W/m²(STC)*		
Maximum Power	[W]	365
Maximum System Voltage	[V]	250
Maximum Power Voltage	[V]	41.76
Maximum Power Current	[A]	8.76
Open Circuit Voltage (Voc)	[V]	49.1
Short Circuit Current (Isc)	[A]	9.17
At 800 W/m²(NOCT)**		
Maximum Power	[W]	263
Maximum Power Voltage	[V]	37.6
Maximum Power Current	[A]	7.0
Open Circuit Voltage (Voc)	[V]	45.0
Short Circuit Current (Isc)	[A]	7.4
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/m² to 200 W/m²)	[%]	3.3

DIMENSIONS		
Length	[mm]	1984(+/-2.5)
Width	[mm]	1000(+/-2.5)
Depth/ incl. Junction Box	[mm]	146
Weight	[kg]	28
Junction Box	[mm]	160 x 160 x 92
IP Code		IP66

CELLS		
Number per Module		72
Cell Technology		Polycrystalline
Cell Shape (Square)	[mm]	156 x 156
Cell Bonding		3 busbar
Bypass Diodes		3

ORDER CODE	
SPA-365	This option can be adopted if the panel is installed in areas at low risk of mechanical damage.
SPA-365WM	This option must be adopted if the panel, after installation, does not have adequate physical or mechanical protection from risk of impact to the rear of the panel.

* 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)

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