

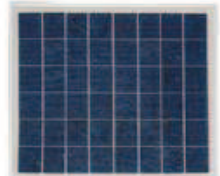


# ENERGIES VERTES

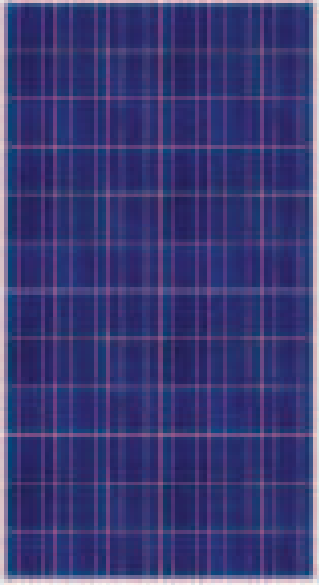
## *Innovation*

### Panneaux Photovoltaïques : Caractéristiques

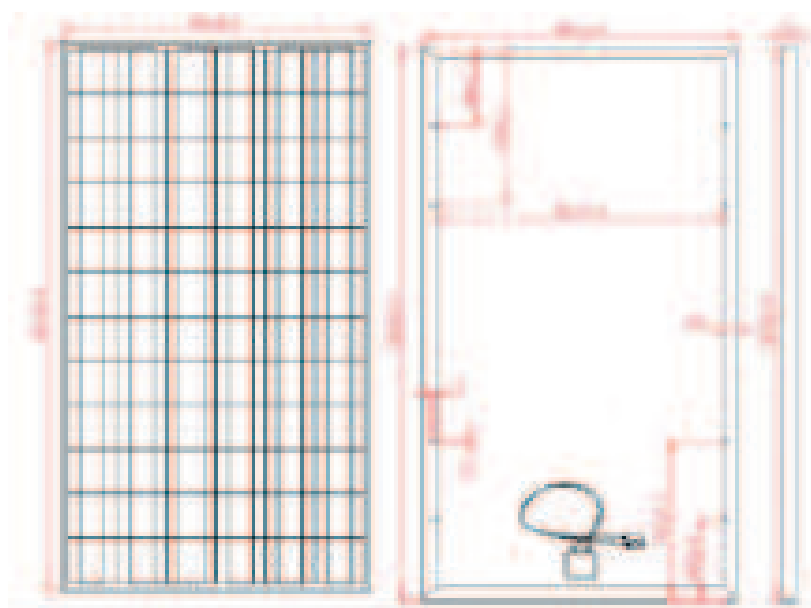
Reference	Puissance W	Dimension (mm)	Poids Kg	Courant max (A)	Tension max (V)	Courant CC (A)	Tension ouvert (V)
JS 280W/36P	280	1960×986×50	20.96	7.78	36	8.55	43.2
JS 270W/36P	270	1960×986×50	20.96	7.5	36	8.25	43.2
JS 260W/36P	260	1960×986×50	20.96	7.23	36	7.95	43.2
JS 250W/36P	250	1960×986×50	20.96	6.94	36	7.93	43.2
JS 225W/30P	225	1640×986×50	18.96	7.68	29.28	8.78	33.46
JS 220W/30P	220	1640×986×50	18.96	7.51	29.28	8.58	33.46
JS 215W/30P	215	1640×986×50	18.96	7.34	29.28	8.39	33.46
JS 210W/30P	210	1640×986×50	18.96	7.17	29.28	8.19	33.46
JS 205W/30P	205	1640×986×50	18.96	7.00	29.28	8	33.46
JS 200W/30P	200	1640×986×50	18.96	6.83	29.28	7.8	33.46
JS 180W/27P	180	1480×986×45	17.8	6.83	26.35	7.31	32.4
JS 175W/27P	175	1480×986×45	17.8	6.64	26.35	7.59	32.4
JS 175W/24P	175	1330×980×45	16.4	7.29	24	7.8	28.99
JS 170W/27P	170	1480×986×45	17.8	6.45	26.35	6.9	32.4
JS 170W/24P	170	1330×980×45	16.4	7.08	24	7.57	28.99
JS 165W/24P	165	1330×980×45	16.4	6.98	24	7.47	28.94
JS 160W/27P	160	1480×986×45	17.8	6.07	26.35	6.49	32.4
JS 160W/24P	160	1330×980×45	16.4	6.86	24	7.34	28.89
JS 130W/18P	130	1480×670×35	12.5	7.4	17.57	7.91	21.6
JS 125W/18P	125	1480×670×35	12.5	7.15	17.57	7.65	21.6
JS 120W/18P	120	1480×670×35	12.5	6.82	17.57	7.30	21.6
JS 115W/18P	115	1480×670×35	12.5	6.55	17.57	7.01	21.6
JS 110W/18P	110	1480×670×35	12.5	6.26	17.57	6.70	21.6
JS 70W/18P	70	760×668×35	6.8	3.88	18	4.16	21.74
JS 65W/18P	65	760×668×35	6.8	3.61	18	3.86	21.74
JS 60W/18P	60	760×668×35	6.8	3.43	17.49	3.67	21.74
JS 20W/18P	20	520×340×23	2.1	1.12	18	1.24	21.6
JS 18W/18P	18	520×340×23	2.1	1.12	18	1.16	21.6
JS 15W/18P	15	480×340×23	1.5	0.84	18	0.92	21.6
JS 10W/18P	10	341×280×23	1.3	0.56	18	0.64	21.6
JS 8W/18P	8	285×280×18	1	0.45	18	0.5	21.6
JS 5W/18P	5	204×280×18	0.8	0.28	18	0.3	21.6



# PANNEAUX POLYCRYSTALLIN 250 - 280 W


Reference	JS280W-36P	JS270W-36P	JS250W-36P	Image type
Puissance Max (W)	280	270	250	
Tension nominal (V mp)	35,14	35,14	35,14	
Courant nominal (I mp)	7,97	7,68	7,11	
Tension circuit ouvert (Voc)	43,2	43,2	43,2	
Courant Court Circuit (A) ISC	8,53	8,21	7,6	
Rendement cellule (%)	16,00%	15,40%	14,27%	
Rendement panneaux (%)	14,49%	13,97%	12,94%	
FF (%)	70-76%			
Puissance garantie	90% - 10 ans , 80% - 25 ans			
Conditions de test	AM 1,5 - 1000W/m2 - 25 °c +/- 2 °C			
Courant diode bypass (A)	12			
Certification	CE - TUV			
Dimension	1960 * 986 * 50			
Dimension Cellule	156 * 156 Poly			
Sous-couche	TPT			
Cadre	Aliage Aluminium			
Nombre de cellules	6 * 12			
N/W (Kg)	20,96			
Boite de raccordement	CE , TUV			
Tolerance puissance	+/- 5%			
Epaisseur verre protection (mm)	3,2			
Charge Radiale (Pa)	2400			
Charge Dynamique	23m/s , 7,53g			
Emballage	1 * 20	5 pallettes : 200 p		
	1 * 40 STD	11 pallettes : 440 p		
Coef Temp Courant ISC (%) °C	0,04			
Coef Temp Voc (%) °C	-0,38			
Coef Temp Pm (%) °C	-0,47			
Coef Temp Courant Imp (%) °C	0,04			
Coef Temp Vmp (%) °C	-0,38			
Temperature de fonctionnement	- 40 °C à + 85 °C			

## Dimensions

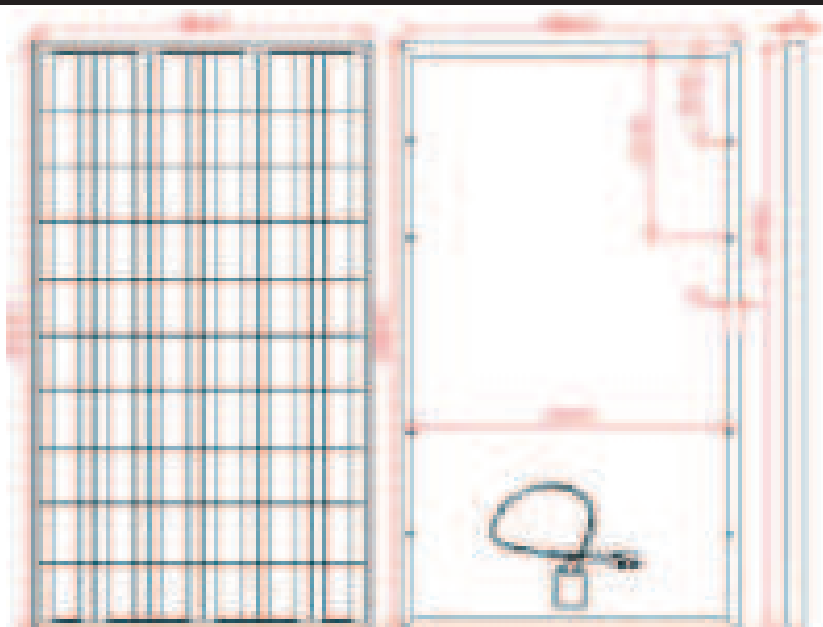




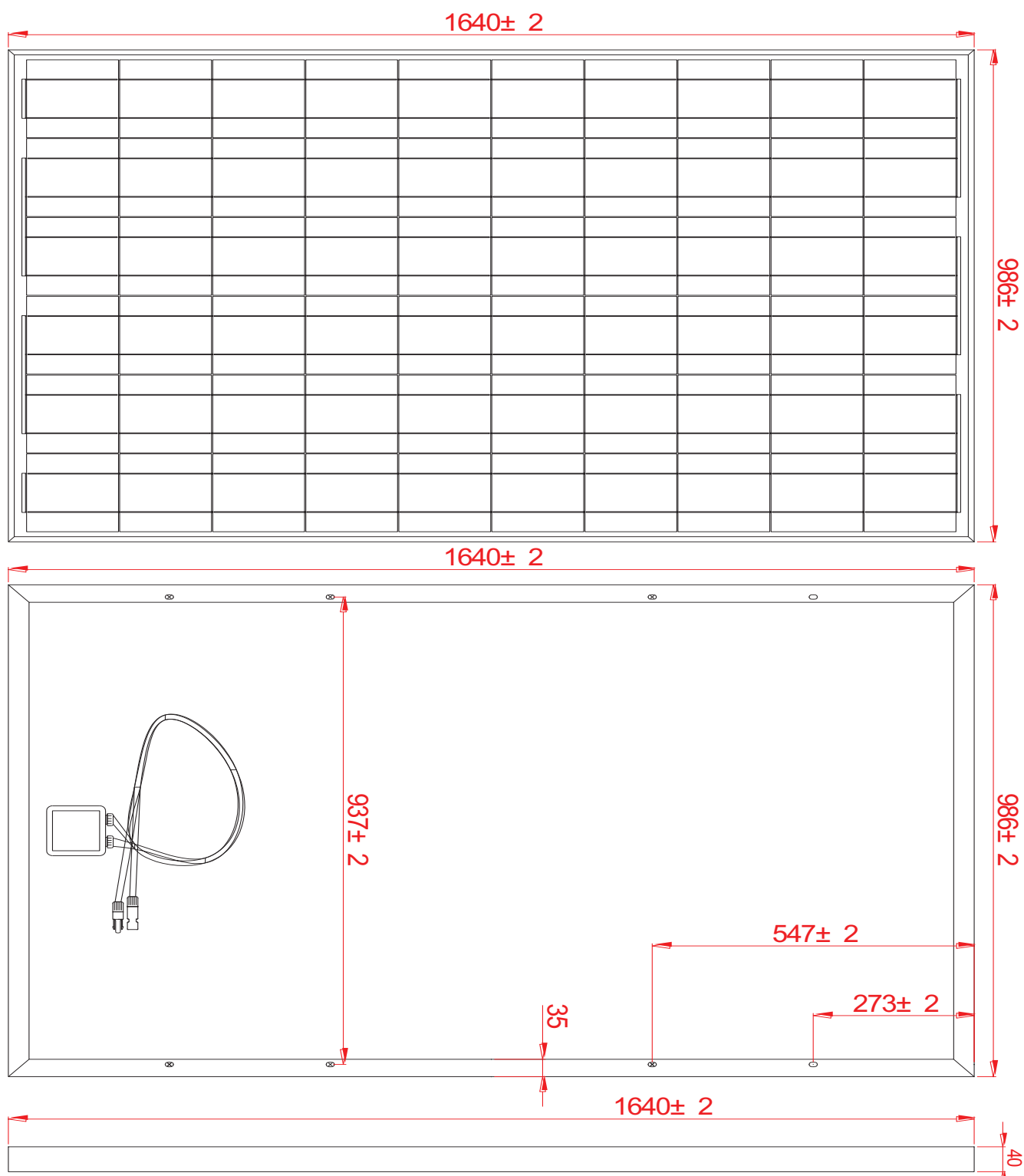
# PANNEAUX POLYCRYSTALLIN 200 - 220 W

Reference	JS220W-30P	JS210W-30P	JS200W-30P	Image type
Puissance Max (W)	220	210	200	
Tension nominal (V mp)	29,28	29,28	29,28	
Courant nominal (I mp)	7,51	7,17	6,83	
Tension circuit ouvert (Voc)	36	36	36	
Courant Court Circuit (A) ISC	8,03	7,67	7,31	
Rendement cellule (%)	15,07%	14,38%	13,70%	
Rendement panneaux (%)	13,61%	12,99%	12,37%	
FF (%)	70-76%			
Puissance garantie	90% - 10 ans , 80% - 25 ans			
Conditions de test	AM 1,5 - 1000W/m2 - 25 °c +/- 2 °C			
Courant diode bypass (A)	12			
Certification	CE - TUV			
Dimension	1640 * 986 * 40			
Dimension Cellule	156 * 156 Poly			
Sous-couche	TPT			
Cadre	Aliage Aluminium			
Nombre de cellules	6 * 10			
N/W (Kg)	18,96			
Boite de raccordement	CE , TUV			
Tolerance puissance	+/- 5%			
Epaisseur verre protection (mm)	3,2			
Charge Radiale (Pa)	2400			
Charge Dynamique	23m/s , 7,53g			
Emballage	1 * 20	14 palettes : 316 p		
	1 * 40 STD	28 palettes : 756 p		
Coef Temp Courant ISC (%) °C	0,04			
Coef Temp Voc (%) °C	-0,38			
Coef Temp Pm (%) °C	-0,47			
Coef Temp Courant Imp (%) °C	0,04			
Coef Temp Vmp (%) °C	-0,38			
Temperature de fonctionnement	- 40 °C à + 85 °C			

## Dimensions



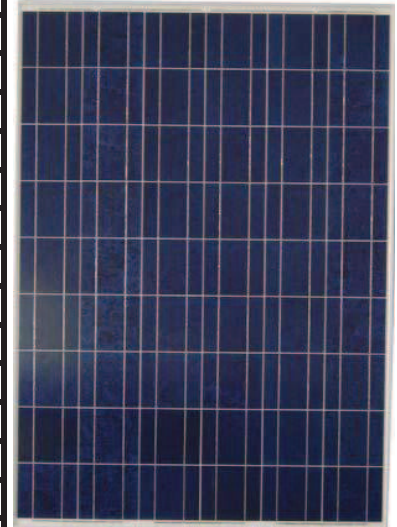
# DIM. PANNEAUX POLYCRYSTALLIN 220-200 W



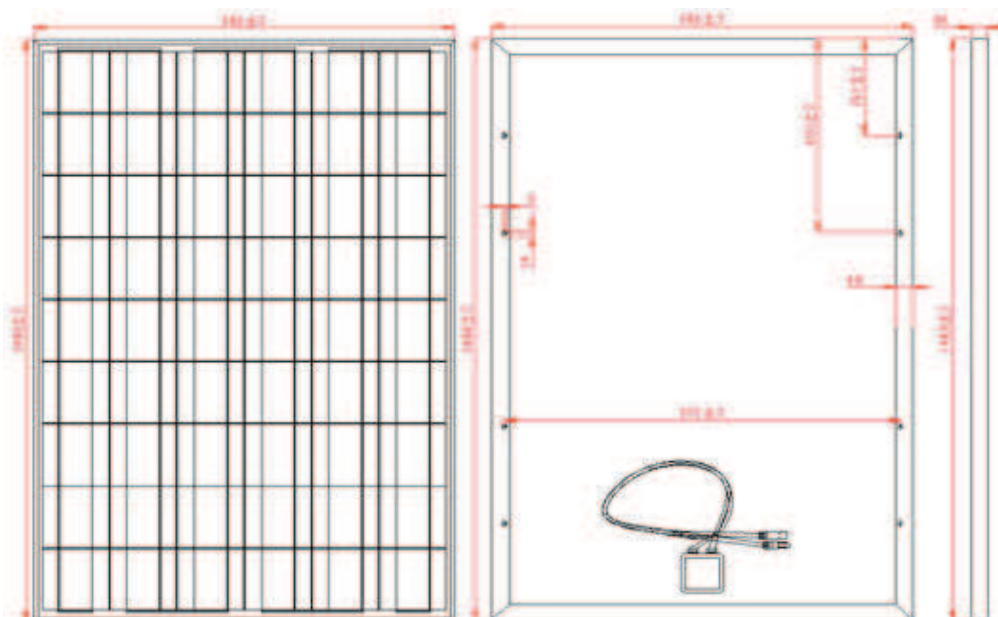
# PANNEAUX POLYCRYSTALLIN 180 W

Reference	JS180W-27P		
Puissance Max (W)	180		
Tension nominal (V mp)	26,35		
Courant nominal (I mp)	6,83		
Tension circuit ouvert (Voc)	32,4		
Courant Court Circuit (A) ISC	7,31		
Rendement cellule (%)	13,70%		
Rendement panneaux (%)	12,33%		
FF (%)	70-76%		
Puissance garantie	90% - 10 ans , 80% - 25 ans		
Conditions de test	AM 1,5 - 1000W/m2 - 25 °c +/- 2 °C		
Courant diode bypass (A)	12		
Certification	CE - TUV		
Dimension	1480 * 986 * 40		
Dimension Cellule	156 * 156 Poly		
Sous-couche	TPT		
Cadre	Aliage Aluminium		
Nombre de cellules	6 * 9		
N/W (Kg)	17,8		
Boite de raccordement	CE , TUV		
Tolerance puissance	+/- 5%		
Epaisseur verre protection (mm)	3,2		
Charge Radiale (Pa)	2400		
Charge Dynamique	23m/s , 7,53g		
Emballage	1 * 20		
	1 * 40 STD		
Coef Temp Courant ISC (%) °C	0,04		
Coef Temp Voc (%) °C	-0,38		
Coef Temp Pm (%) °C	-0,47		
Coef Temp Courant Imp (%) °C	0,04		
Coef Temp Vmp (%) °C	-0,38		
Temperature de fonctionnement	- 40 °C à + 85 °C		

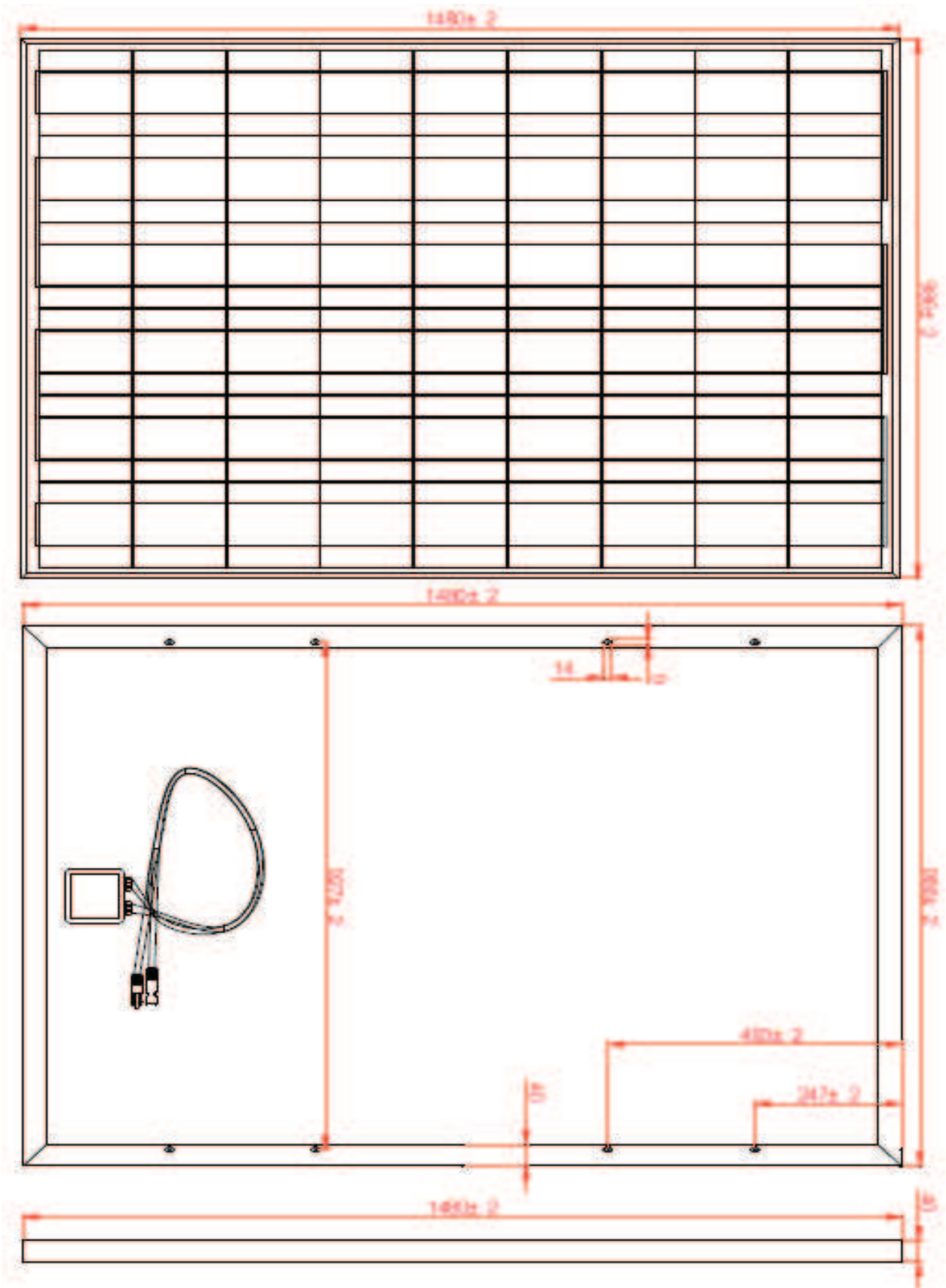
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## Dimensions



# DIM. PANNEAUX POLYCRYSTALLIN 180 W

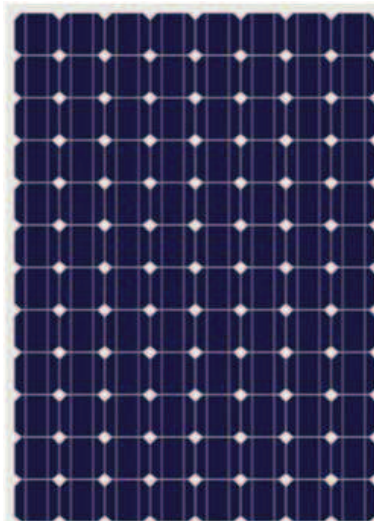




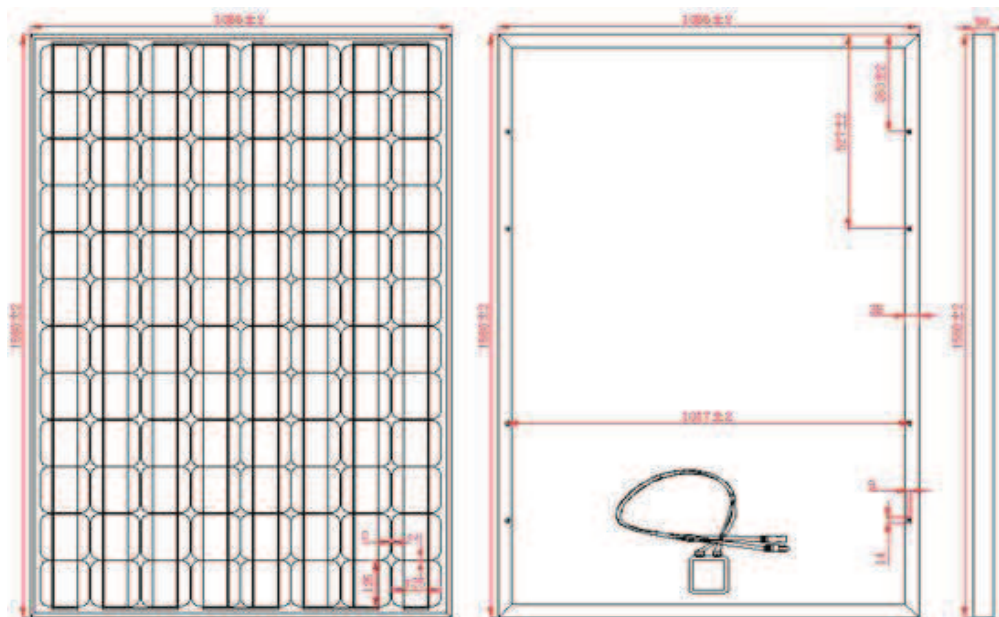
# PANNEAUX MONOCRYSTALLIN 220 - 240 W

Reference	JS240W-48M	JS230W-48M	JS220W-48M
Puissance Max (W)	240	230	220
Tension nominal (V mp)	47,8	47,8	47,8
Courant nominal (I mp)	5,02	4,81	4,6
Tension circuit ouvert (Voc)	54,62	54,62	54,62
Courant Court Circuit (A) ISC	5,74	5,5	5,26
Rendement cellule (%)	17,26%	16,54%	15,83%
Rendement panneaux (%)	14,00%	13,66%	13,06%
FF (%)	70-76%		
Puissance garantie	90% - 10 ans , 80% - 25 ans		
Conditions de test	AM 1,5 - 1000W/m2 - 25 °C +/- 2 °C		
Courant diode bypass (A)	12		
Certification	CE - TUV		
Dimension	1580 * 1066 * 45		
Dimension Cellule	125 * 125 mono		
Sous-couche	TPT		
Cadre	Aliage Aluminium		
Nombre de cellules	8 * 12		
N/W (Kg)	19,5		
Boite de raccordement	CE , TUV		
Tolerance puissance	+/- 5%		
Epaisseur verre protection (mm)	3,2		
Charge Radiale (Pa)	2400		
Charge Dynamique	23m/s , 7,53g		
Emballage	1 * 20		
	1 * 40 STD		
Coef Temp Courant ISC (%) °C	0,04		
Coef Temp Voc (%) °C	-0,38		
Coef Temp Pm (%) °C	-0,47		
Coef Temp Courant Imp (%) °C	0,04		
Coef Temp Vmp (%) °C	-0,38		
Temperature de fonctionnement	- 40 °C à + 85 °C		

Image type

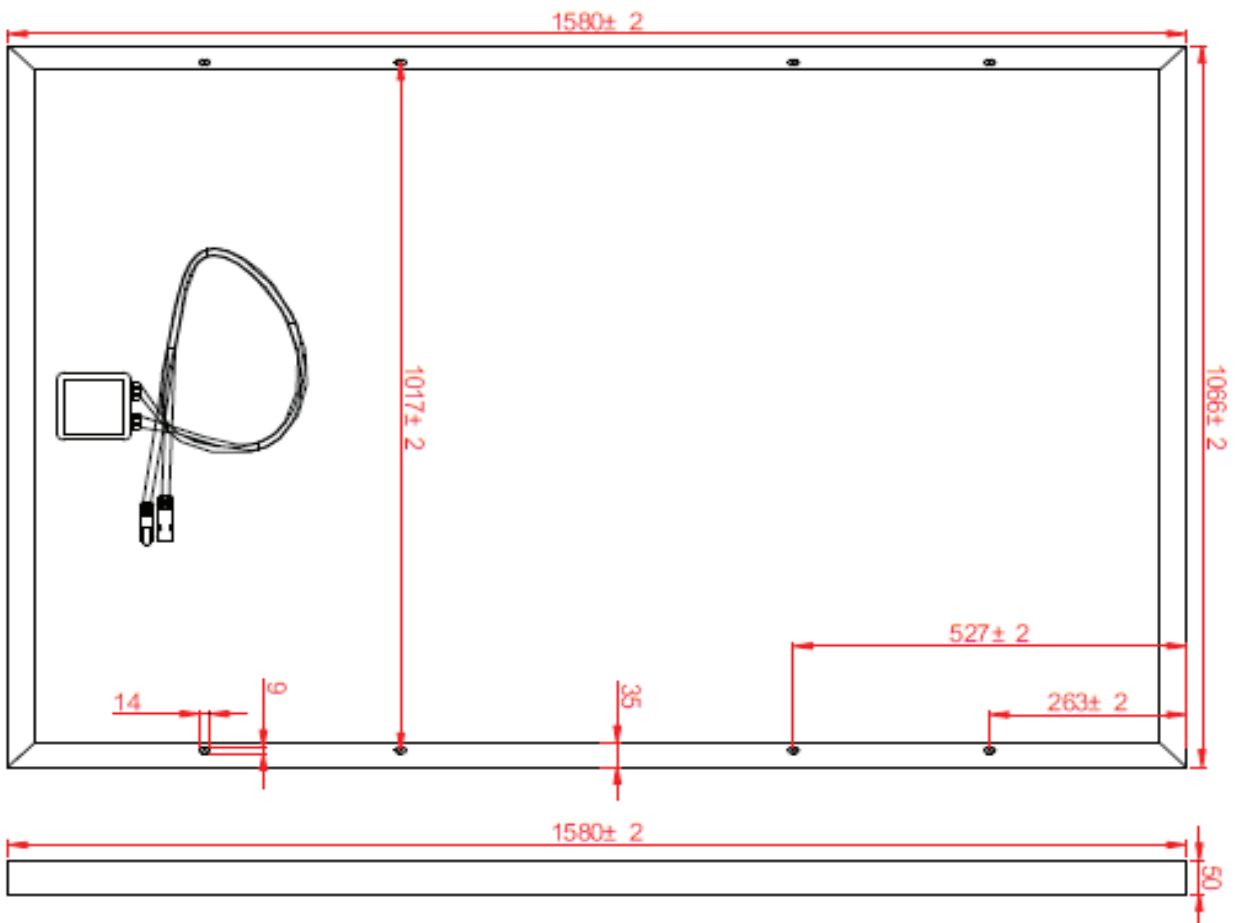
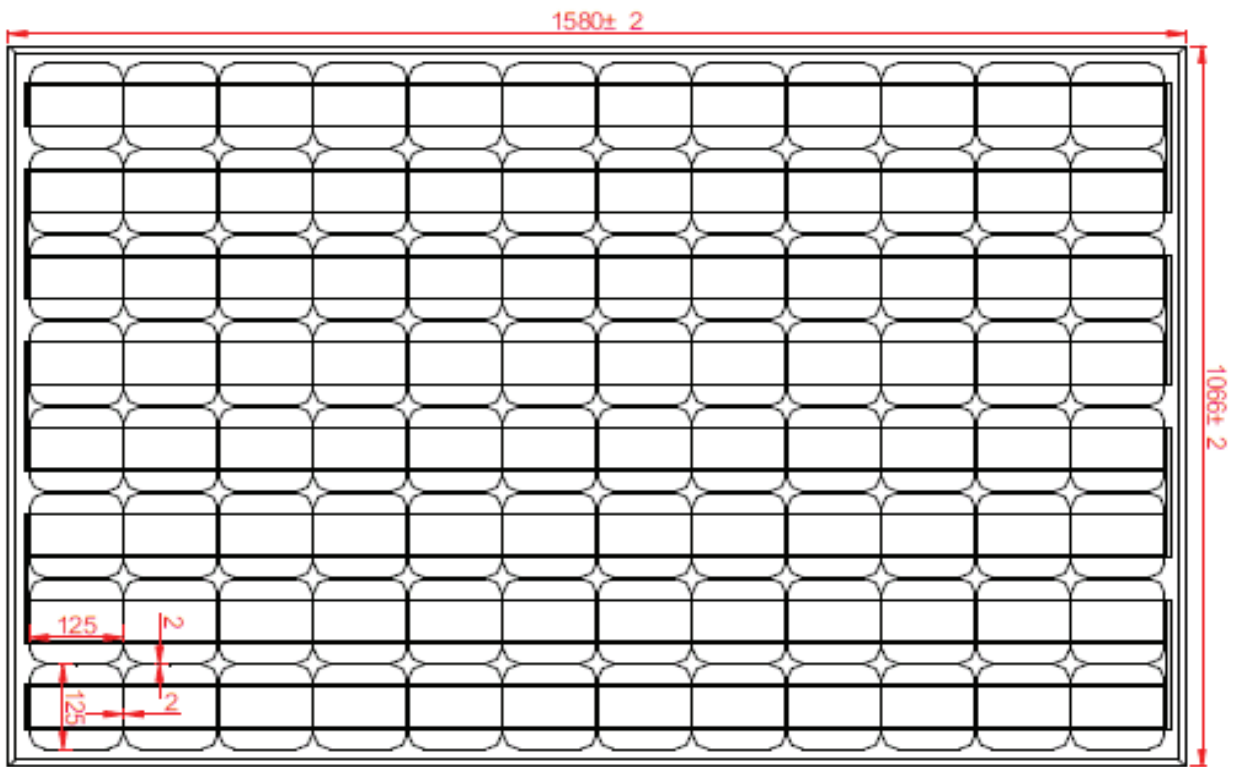


## Dimensions

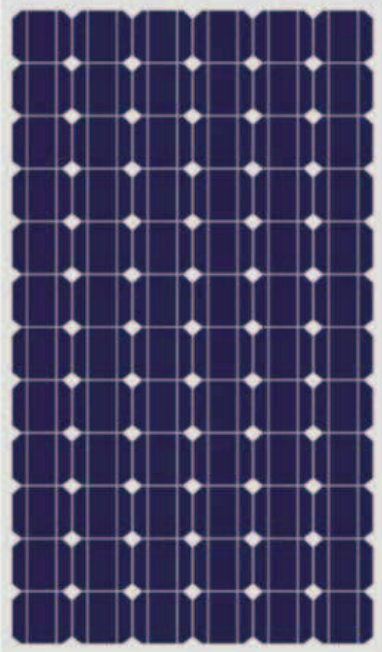




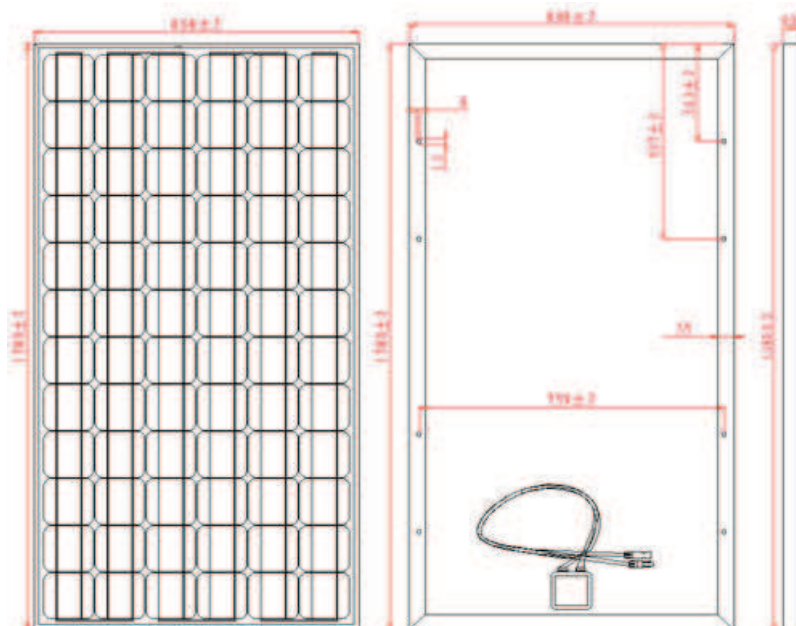
# DIM. PANNEAUX MONOCRYSTALLIN 220 - 240 W



# PANNEAUX MONOCRYSTALLIN 180 W

Reference	JS180W-36M			Image type
Puissance Max (W)	180			
Tension nominal (V mp)	35,14			
Courant nominal (I mp)	5,12			
Tension circuit ouvert (Voc)	43,2			
Courant Court Circuit (A) ISC	5,48			
Rendement cellule (%)	17,00%			
Rendement panneaux (%)	14,00%			
FF (%)	70-76%			
Puissance garantie	90% - 10 ans , 80% - 25 ans			
Conditions de test	AM 1,5 - 1000W/m2 - 25 °c +/- 2 °C			
Courant diode bypass (A)	12			
Certification	CE - TUV			
Dimension	1580 * 808 * 40			
Dimension Cellule	125 * 125 Mono			
Sous-couche	TPT			
Cadre	Aliage Aluminium			
Nombre de cellules	6 * 12			
N/W (Kg)	15,5			
Boite de raccordement	CE , TUV			
Tolerance puissance	+/- 5%			
Epaisseur verre protection (mm)	3,2			
Charge Radiale (Pa)	2400			
Charge Dynamique	23m/s , 7,53g			
Emballage	1 * 20			
	1 * 40 STD			
Coef Temp Courant ISC (%) °C	0,04			
Coef Temp Voc (%) °C	-0,38			
Coef Temp Pm (%) °C	-0,47			
Coef Temp Courant Imp (%) °C	0,04			
Coef Temp Vmp (%) °C	-0,38			
Temperature de fonctionnement	- 40 °C à + 85 °C			

## Dimensions



# DIM. PANNEAUX MONOCRYSTALLIN 180 W

