



# 530W - 550W BIFACIAL MODULE

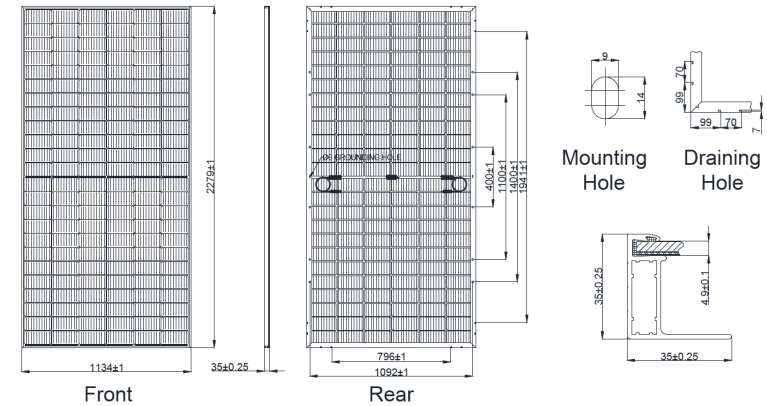
## Design Parameters

Product Type	PS-MO-BFHC-GG-XXX
Cell Type	Half Cut 72x2 Mono PERC
Glass	2 mm Glass
Back Cover	2 mm Glass
Frame	Anodized Aluminium Alloy
Output Cables	300-1100-1200 mm 1x4,0 mm2
Junction Box	IP68 Rated
<b>Packing</b>	
Weight	33 kg ± 1 kg
Dimension	2285mm-1134mm / 30x30 Gray
Pieces	35 pcs/pallet
Truck	770 pcs/truck
Container	700 pcs/ 40' HC Container

## Certificate

IEC 61215-1
IEC 61215-1-1
IEC 61215-2
IEC 61730-1
IEC 61730-2
ISO 9001
ISO 14001
ISO 45001
CE

## Drawing



## Electrical Characteristics

Power Class	550		545		540		535		530	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Module Efficiency	21,37%		21,09%		20,90%		20,70%		20,55%	
Maximum Power (Pmax)	550,00	407,47	545,00	403,74	540,00	400,06	535,00	396,37	530,00	392,66
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	12,62	10,87	12,60	10,85	12,57	10,82	12,54	10,79	12,53	10,79
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	13,38	11,51	13,34	11,48	13,29	11,44	13,25	11,40	13,23	11,39

"Standart Test Conditions (STC): irradiance 1000W/ m2 ,A.M 1,5, cell temperature 25 °C" - "Nominal Operating Cell Temperature (NOCT): irradiance 800W/ m2 , A.M 1.5 , Ambient temperature 20 °C , Wind 1 m/s"

## Temperature Ratings

Temperature Coefficient of Pmax	-0,37% / (°C)
Temperature Coefficient of Voc	-0,30% / (°C)
Temperature Coefficient of Isc	0,05% / (°C)
Operating Temperature (°C)	-40(°C) ~+85 (°C)

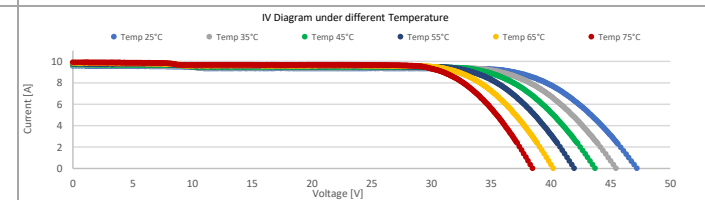
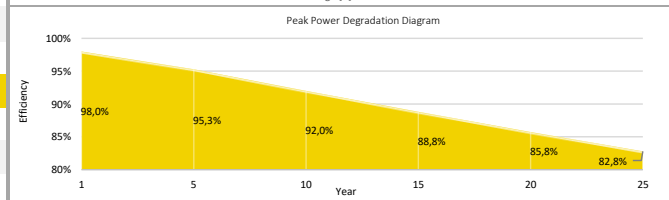
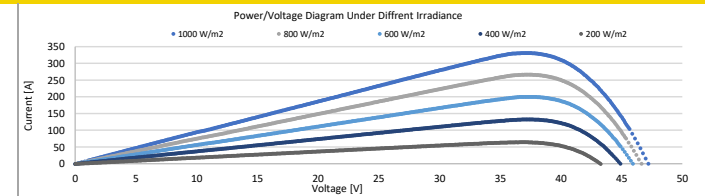
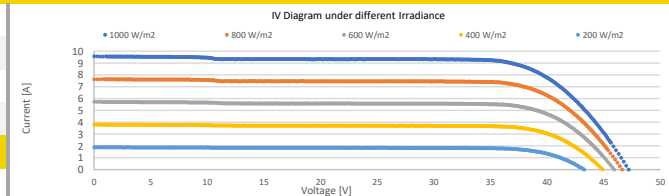
## Electrical Limits

Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Power Tolerance	0 ~ +4.9%

## Mechanical Limits

Front Side Max Static Loading	5400 Pa
Back Side Max Static Loading	2400 Pa
Hailstone	d: 25 mm, 23 m/s

## Diagrams





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	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Calculated Rear Side Gain Values based on 5%</b>										
<b>Module Efficiency</b>	22,44%		22,14%		21,95%		21,74%		21,58%	
Maximum Power (Pmax)	577,50	427,81	572,25	423,92	567,00	420,03	561,75	416,14	556,50	412,26
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	13,26	11,41	13,23	11,39	13,20	11,36	13,16	11,33	13,16	11,32
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	14,05	12,09	14,01	12,06	13,96	12,01	13,91	11,97	13,89	11,95
<b>Calculated Rear Side Gain Values based on 10%</b>										
<b>Module Efficiency</b>	23,51%		23,20%		22,99%		22,77%		22,61%	
Maximum Power (Pmax)	605,00	448,18	599,50	444,11	594,00	440,04	588,50	435,96	583,00	431,89
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	13,89	11,95	13,86	11,93	13,83	11,90	13,79	11,87	13,78	11,86
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	14,72	12,67	14,68	12,63	14,62	12,58	14,58	12,54	14,55	12,52
<b>Calculated Rear Side Gain Values based on 15%</b>										
<b>Module Efficiency</b>	24,58%		24,25%		24,04%		23,81%		23,64%	
Maximum Power (Pmax)	632,50	468,56	626,75	464,30	621,00	460,04	615,25	455,78	609,50	451,52
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	14,52	12,50	14,49	12,47	14,46	12,45	14,42	12,41	14,41	12,40
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	15,39	13,24	15,35	13,21	15,28	13,16	15,24	13,11	15,21	13,09
<b>Calculated Rear Side Gain Values based on 20%</b>										
<b>Module Efficiency</b>	25,65%		25,31%		25,08%		24,84%		24,67%	
Maximum Power (Pmax)	660,00	488,93	654,00	484,48	648,00	480,04	642,00	475,59	636,00	471,15
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	15,15	13,04	15,12	13,01	15,09	12,99	15,04	12,95	15,04	12,94
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	16,05	13,82	16,01	13,78	15,95	13,73	15,90	13,69	15,87	13,66
<b>Calculated Rear Side Gain Values based on 25%</b>										
<b>Module Efficiency</b>	26,72%		26,36%		26,13%		25,88%		25,69%	
Maximum Power (Pmax)	687,50	509,30	681,25	504,67	675,00	500,04	668,75	495,41	662,50	490,78
Maximum Power Voltage (Vmp)	43,57	37,50	43,25	37,23	42,95	36,97	42,68	36,73	42,30	36,41
Maximum Power Current (Imp)	15,78	13,58	15,75	13,56	15,72	13,53	15,67	13,49	15,66	13,48
Open Circuit Voltage (Voc)	49,71	42,78	49,31	42,44	49,13	42,29	48,99	42,17	48,86	42,06
Short Circuit Current (Isc)	16,72	14,39	16,68	14,36	16,61	14,30	16,56	14,26	16,54	14,23