

Calculated Rear Side Gain Values based on 5%

Module Efficiency	22,44%		22,14%		21,95%		21,74%		21,58%		21,37%	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	577,50	427,81	572,25	423,92	567,00	4420,03	561,75	416,14	556,50	412,26	551,25	408,37
Maximum Power Voltage (Vmp)	41,50	35,55	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	13,92	11,98	13,86	11,93	13,80	11,87	13,73	11,82	13,62	11,73	13,50	11,62
Open Cicuit Voltage (Voc)	50,10	43,12	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	14,69	12,64	14,66	12,62	14,60	12,56	14,53	12,51	14,43	12,42	14,32	12,33

Calculated Rear Side Gain Values based on 10%

Module Efficiency	23,51%		23,30%		22,99%		22,79%		22,59%		22,39%	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	605,00	448,18	599,50	444,11	594,00	440,04	588,50	435,96	583,00	431,89	577,50	427,81
Maximum Power Voltage (Vmp)	41,50	35,72	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	14,58	12,55	14,52	12,49	14,45	12,44	14,39	12,38	14,27	12,28	14,15	12,18
Open Cicuit Voltage (Voc)	50,10	43,12	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	15,39	13,25	15,36	13,22	15,29	13,16	15,22	13,10	15,11	13,01	15,00	12,91

Calculated Rear Side Gain Values based on 15%

Module Efficiency	24,58%		24,25%		24,04%		23,81%		23,64%		23,40%	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	632,50	468,56	626,75	464,30	621,00	460,04	615,25	455,78	609,50	451,52	603,75	447,26
Maximum Power Voltage (Vmp)	41,50	35,72	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	15,24	13,12	15,18	13,06	15,11	13,00	15,04	12,95	14,92	12,84	14,79	12,73
Open Cicuit Voltage (Voc)	50,10	43,12	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	16,09	13,85	16,05	13,82	15,99	13,76	15,92	13,70	15,80	13,60	15,69	13,50

Calculated Rear Side Gain Values based on 20%

Module Efficiency	25,65%		25,31%		25,08%		24,84%		24,67%		24,42%	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	660,00	488,93	654,00	484,48	648,00	480,04	642,00	475,59	636,00	471,15	630	466,70
Maximum Power Voltage (Vmp)	41,50	35,72	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	15,90	13,69	15,84	13,63	15,77	13,57	15,70	13,51	15,57	13,40	15,43	13,28
Open Cicuit Voltage (Voc)	50,10	43,12	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	16,79	14,45	16,75	14,42	16,68	14,36	16,61	14,29	16,49	14,19	16,37	14,09

Calculated Rear Side Gain Values based on 25%

Module Efficiency	26,72%		26,36%		26,13%		25,88%		25,69%		25,44%	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	687,50	509,30	681,25	504,67	675,00	500,04	668,75	495,41	662,50	490,78	656,25	486,15
Maximum Power Voltage (Vmp)	41,50	35,72	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	16,57	14,26	16,50	14,20	16,42	14,14	16,35	14,07	16,22	13,96	16,08	13,84
Open Cicuit Voltage (Voc)	50,10	43,12	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	17,49	15,05	17,45	15,02	17,38	14,95	17,30	14,89	17,18	14,78	17,05	14,67

525W – 550W



BF 182 Mono PERC 10 BB Half – Cut 72x2

Design Parameters

Product Model	PS-MO-HC-XXX
Cell Type	BF 182 Mono PERC 10BB
Number of Cells	Half Cut 72x2
Glass	3,2 mm
Back Cover	Beyaz Arka Plan
Frame	Eloksallı Alüminyum Ala ım
Output Cables	1200-1100-300 mm 1x4,0 mm2
Junction Box	IP68 Rated

Packing

Weight	27,5 kg
Dimension	2279mm-1134mm / 35X35 Gray
Pieces	32 pcs/pallet
Truck	704 pcs/ Truck

Temperature Ratings

Temperature Coefficient of Pmax	-0,36% (°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	1500V DC (IEC & UL)
Maximum Series Fuse Rating	25 A
Power Tolerance	0~+3%

Mechanical Limits

Front Side Static Design Loading	3600 Pa
Back Side Static Design Loading	1600 Pa
Hailstone	d: 25mm, 23 m/s

Related Standards / Certificate

TS EN 61215-1 / 20.03.2017
TS EN 61730-2 / 19.11.2018
TS EN 61215-2 / 18.12.2017
TS EN IEC 61730-1 / 19.11.2018
TS EN 61730-1 / 31.01.2008
TS EN 61215-1-1 / 09.12.2016



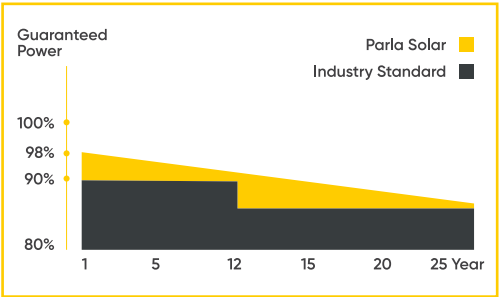
Electrical Characteristics

Power Class	550		545		540		535		530		525	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Module Efficiency	21,26%		20,99%		20,83%		20,63%		20,19%		20,36%	
Maximum Power (Pmax)	550	408,32	545	404,61	540	400,90	535	397,18	530	393,47	525	389,76
Maximum Power Voltage (Vmp)	41,50	35,76	41,30	35,59	41,10	35,41	40,90	35,24	40,85	35,20	40,82	35,17
Maximum Power Current (Imp)	13,25	11,42	13,20	11,37	13,14	11,32	13,08	11,27	12,97	11,18	12,86	11,08
Open Circuit Voltage (Voc)	50,10	43,17	49,90	43,00	49,70	42,82	49,50	42,65	49,45	42,61	49,40	42,56
Short Circuit Current (Isc)	13,99	12,05	13,96	12,03	13,90	11,98	13,84	11,92	13,74	11,84	13,64	11,75

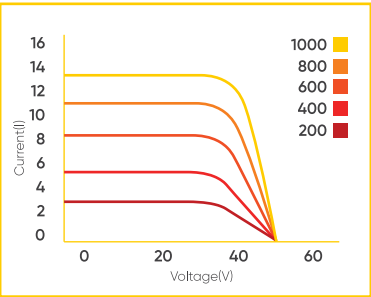
*Standart Test Conditions (STC): irradiance 1000W/ m2 ,A.M 1,5, cell temperature 25 °C

*Nominal Operating Cell Temperature (NOCT): irradiance 800W/ m2 , A.M 1,5 , Ambient temperature 20 °C , Wind 1 m/s". Diagrams for STC.

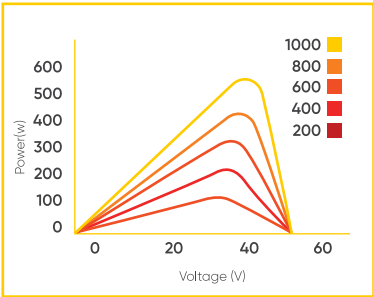
power drop graph



12-Year Product Warranty / 25-Year Linear Performance Warranty

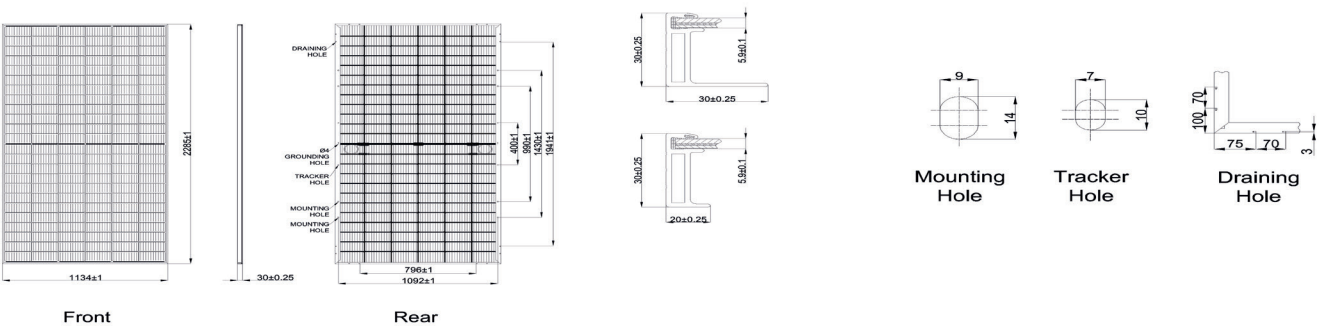


IV Diagram under different Irradiance

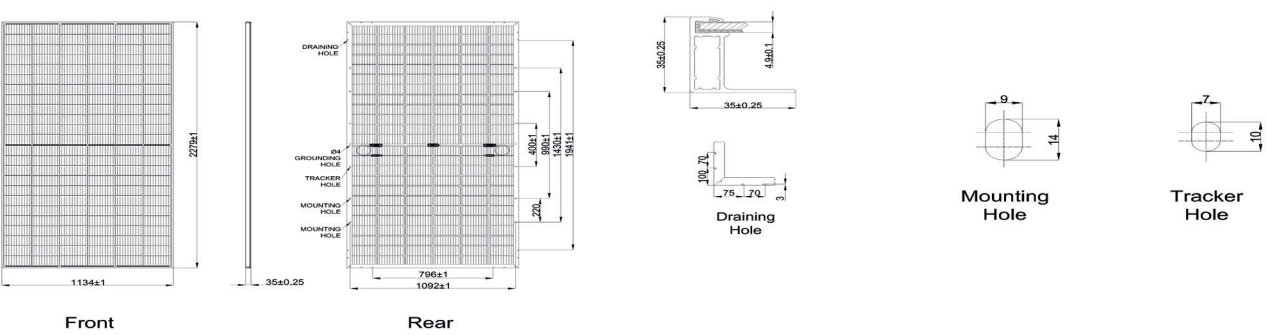


Power/Voltage Diagram under different Irradiance

525W - 550W BF 182 Mono PERC 10 BB Half - Cut 72x2



525W - 550W BF 182 Mono PERC 10 BB Half - Cut 72x2



525W - 550W BF 182 Mono PERC 10 BB Half - Cut 72x2

