



# 525W - 545W BF 182 Mono PERC 10BB Half Cut 72x2

Design Parameters		Related Standards	Drawing
Product Model	PS-MO-BFHC-XXX	TS EN 61215-1 / 20.03.2017	
Cell Type	BF 182 Mono PERC 10BB	TS EN 61730-2 / 19.11.2018	
Number of Cells	Half Cut 72x2	TS EN 61215-2 / 18.12.2017	
Glass	3,2 mm	TS EN IEC 61730-1 / 19.11.2018	
Back Cover	PET Transparent	TS EN 61730-1 / 31.01.2008	
Frame	Anodized Aluminium Alloy	TS EN 61215-1-1 / 09.12.2016	
Output Cables	1200-1100-300 mm 1x4,0 mm2		
Junction Box	IP68 Rated		
<b>Packing</b>			
Weight	27,5 kg		
Dimension	2279mm-1134mm / 35x35 Gray		
Pieces	32 pcs/pallet		
Truck	704 pcs/ Truck		

Power Class	545		540		535		530		525	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Module Efficiency	21,18%		20,90%		20,72%		20,54%		20,36%	
Maximum Power (Pmax)	545	403,74	540	400,03	535	396,33	530	392,62	525	388,92
Maximum Power Voltage (Vmp)	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	13,20	11,36	13,14	11,31	13,08	11,26	12,97	11,17	12,86	11,07
Open Circuit Voltage (Voc)	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
Short Circuit Current (Isc)	13,96	12,02	13,90	11,96	13,84	11,91	13,74	11,83	13,64	11,74

"Standart Test Conditions (STC): irradiance 1000W/ m<sup>2</sup> ,A.M 1.5, cell temperature 25 °C" - "Nominal Operating Cell Temperature (NOCT): irradiance 800W/ m<sup>2</sup> , A.M 1.5 , Ambient temperature 20 °C , Wind 1 m/s". Diagrams for STC.

Temperature Ratings		Diagrams		
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)			
<b>Electrical Limits</b>				
Maximum System Voltage	1500 VDC (IEC & UL)			
Maximum Series Fuse Rating	25 A			
Power Tolerance	0 ~ +3%			
<b>Mechanical Limits</b>				
Front Side Static Design Loading	3600 Pa			
Back Side Static Design Loading	1600 Pa			
Hailstone	d: 25 mm, 23 m/s			



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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>	22,24%		21,95%		21,76%		21,57%		21,38%	
<b>Maximum Power (Pmax)</b>	572,25	423,92	567,00	420,03	561,75	416,14	556,50	412,26	551,25	408,37
<b>Maximum Power Voltage (Vmp)</b>	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
<b>Maximum Power Current (Imp)</b>	13,86	11,93	13,80	11,87	13,73	11,82	13,62	11,73	13,50	11,62
<b>Open Circuit Voltage (Voc)</b>	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
<b>Short Circuit Current (Isc)</b>	14,66	12,62	14,60	12,56	14,53	12,51	14,43	12,42	14,32	12,33
<b>Calculated Rear Side Gain Values based on 10%</b>										
<b>Module Efficiency</b>	23,30%		22,99%		22,79%		22,59%		22,39%	
<b>Maximum Power (Pmax)</b>	599,50	444,11	594,00	440,04	588,50	435,96	583,00	431,89	577,50	427,81
<b>Maximum Power Voltage (Vmp)</b>	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
<b>Maximum Power Current (Imp)</b>	14,52	12,49	14,45	12,44	14,39	12,38	14,27	12,28	14,15	12,18
<b>Open Circuit Voltage (Voc)</b>	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
<b>Short Circuit Current (Isc)</b>	15,36	13,22	15,29	13,16	15,22	13,10	15,11	13,01	15,00	12,91
<b>Calculated Rear Side Gain Values based on 15%</b>										
<b>Module Efficiency</b>	24,35%		24,04%		23,83%		23,62%		23,41%	
<b>Maximum Power (Pmax)</b>	626,75	464,30	621,00	460,04	615,25	455,78	609,50	451,52	603,75	447,26
<b>Maximum Power Voltage (Vmp)</b>	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
<b>Maximum Power Current (Imp)</b>	15,18	13,06	15,11	13,00	15,04	12,95	14,92	12,84	14,79	12,73
<b>Open Circuit Voltage (Voc)</b>	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
<b>Short Circuit Current (Isc)</b>	16,05	13,82	15,99	13,76	15,92	13,70	15,80	13,60	15,69	13,50
<b>Calculated Rear Side Gain Values based on 20%</b>										
<b>Module Efficiency</b>	25,41%		25,08%		24,87%		24,65%		24,43%	
<b>Maximum Power (Pmax)</b>	654,00	484,48	648,00	480,04	642,00	475,59	636,00	471,15	630,00	466,70
<b>Maximum Power Voltage (Vmp)</b>	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
<b>Maximum Power Current (Imp)</b>	15,84	13,63	15,77	13,57	15,70	13,51	15,57	13,40	15,43	13,28
<b>Open Circuit Voltage (Voc)</b>	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
<b>Short Circuit Current (Isc)</b>	16,75	14,42	16,68	14,36	16,61	14,29	16,49	14,19	16,37	14,09
<b>Calculated Rear Side Gain Values based on 25%</b>										
<b>Module Efficiency</b>	26,47%		26,13%		25,90%		25,67%		25,45%	
<b>Maximum Power (Pmax)</b>	681,25	504,67	675,00	500,04	668,75	495,41	662,50	490,78	656,25	486,15
<b>Maximum Power Voltage (Vmp)</b>	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
<b>Maximum Power Current (Imp)</b>	16,50	14,20	16,42	14,14	16,35	14,07	16,22	13,96	16,08	13,84
<b>Open Circuit Voltage (Voc)</b>	49,90	42,95	49,70	42,78	49,50	42,60	49,45	42,56	49,40	42,52
<b>Short Circuit Current (Isc)</b>	17,45	15,02	17,38	14,95	17,30	14,89	17,18	14,78	17,05	14,67