



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

Design Parameters		Related Standards	Drawing
Product Model	PS-MO-BFHC-GG-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	2+2 mm	TS EN IEC 61730-1 / 19.11.2018	
Back Cover	Glass	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		
Packing			
Weight	33 kg		
Dimension	2285mm-1134mm / 30x30 Gray		
Pieces	37 pcs/pallet		
Truck	592 pcs / Truck		

Power Class	545		540		535		530		525	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Module Efficiency	21,25%		20,98%		20,80%		20,61%		20,43%	
Maximum Power (Pmax)	545	404,61	540	400,90	535	397,18	530	393,47	525	389,76
Maximum Power Voltage (Vmp)	41,30	35,59	41,10	35,41	40,90	35,24	40,85	35,20	40,82	35,17
Maximum Power Current (Imp)	13,20	11,37	13,14	11,32	13,08	11,27	12,97	11,18	12,86	11,08
Open Circuit Voltage (Voc)	49,90	43,00	49,70	42,82	49,50	42,65	49,45	42,61	49,40	42,56
Short Circuit Current (Isc)	13,96	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."

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)			
Electrical Limits				
Maximum System Voltage	1500VDC (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: 25 mm, 23 m/s			



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	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Calculated Rear Side Gain Values based on 5%										
Module Efficiency	22,32%		22,03%		21,84%		21,64%		21,45%	
Maximum Power (Pmax)	572,25	423,92	567,00	420,03	561,75	416,14	556,50	412,26	551,25	408,37
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)	13,86	11,93	13,80	11,87	13,73	11,82	13,62	11,73	13,50	11,62
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)	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	23,38%		23,08%		22,88%		22,67%		22,47%	
Maximum Power (Pmax)	599,50	444,11	594,00	440,04	588,50	435,96	583,00	431,89	577,50	427,81
Maximum Power Voltage (Vmp)	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	14,52	12,49	14,45	12,44	14,39	12,38	14,27	12,28	14,15	12,18
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)	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	24,44%		24,13%		23,92%		23,70%		23,49%	
Maximum Power (Pmax)	626,75	464,30	621,00	460,04	615,25	455,78	609,50	451,52	603,75	447,26
Maximum Power Voltage (Vmp)	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	15,18	13,06	15,11	13,00	15,04	12,95	14,92	12,84	14,79	12,73
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)	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	25,50%		25,17%		24,96%		24,74%		24,52%	
Maximum Power (Pmax)	654,00	484,48	648,00	480,04	642,00	475,59	636,00	471,15	630,00	466,70
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)	15,84	13,63	15,77	13,57	15,70	13,51	15,57	13,40	15,43	13,28
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)	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	26,57%		26,22%		25,99%		25,77%		25,54%	
Maximum Power (Pmax)	681,25	504,67	675,00	500,04	668,75	495,41	662,50	490,78	656,25	486,15
Maximum Power Voltage (Vmp)	41,30	35,55	41,10	35,37	40,90	35,20	40,85	35,16	40,82	35,13
Maximum Power Current (Imp)	16,50	14,20	16,42	14,14	16,35	14,07	16,22	13,96	16,08	13,84
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)	17,45	15,02	17,38	14,95	17,30	14,89	17,18	14,78	17,05	14,67