



## MODEL SV48



-  Premium quality
-  Power output range 200 - 215 Wp
-  100% EL testing
-  Mechanical load up to 5400 Pa
-  Low weight
-  Module efficiency up to 16,27 %
-  Positive power tolerance -0/+4,9 W
-  Made in Europe
-  IEC EN 61215 certified
-  IEC EN 61730 - 1 certified
-  IEC EN 61730 - 2 certified
-  PID test passed

### Warranty:

- 20** years manufacturing defects
- 15** years limited, 90% output power
- 30** years limited, 80% output power



Certificate Number BABT0715



Electrical parameters at Standard Test Conditions (STC)					
MODEL		SV48-200	SV48-205	SV48-210	SV48-215
Peak power $P_{MPP}$	[W]	200	205	210	215
Peak power tolerance	[W]	-0/+4,9			
Short circuit current $I_{SC}$	[A]	8,62	8,74	8,96	9,08
Open circuit voltage $V_{OC}$	[V]	30,4	30,6	30,4	30,7
Rated current $I_{MPP}$	[A]	8,12	8,25	8,40	8,53
Rated voltage $V_{MPP}$	[V]	24,7	24,9	25,0	25,3
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	15,14	15,51	15,89	16,27

STC: 1000W/m<sup>2</sup> irradiance, 25 °C cell temperature, AM1,5 g spectrum according to EN 60904-3  
Average relative efficiency reduction of 3,4 % at 200 W/m<sup>2</sup> according to EN 60904-1

Electrical parameters at Nominal Operating Cell Temperature (NOCT)					
MODEL		SV48-200	SV48-205	SV48-210	SV48-215
Peak power $P_{MPP}$	[W]	145,48	148,92	152,32	156,52
Peak power tolerance	[W]	-0/+4,9			
Short circuit current $I_{SC}$	[A]	6,92	7,03	7,20	7,29
Open circuit voltage $V_{OC}$	[V]	28,1	28,2	28,1	28,3
Rated current $I_{MPP}$	[A]	6,43	6,53	6,65	6,75
Rated voltage $V_{MPP}$	[V]	22,6	22,8	22,9	23,1

NOCT: module operating parameters at 800 W/m<sup>2</sup> irradiance, 20 °C ambient temperature, 1 m/s wind speed

MECHANICAL DATA	
Dimensions (H x W x D)	[mm] 1324 x 992 x 35
Weight	[kg] 15,0
Solar cells	48 cells, polycrystalline Si, 156 x 156 mm
Cells encapsulation	Ethylene vinyl acetate (EVA)
Front	Tempered solar glass, 3,2 mm
Back	Composite polyester Film
Frame	Anodized aluminium frame with twin-wall profile and drainage holes
Junction box	IP67 with 3 Bypass diodes
Cable and connectors	Solar cable 4 mm <sup>2</sup> , length 1000 mm, MC4 compatible connectors

NOTE: For extended models, SV48 YYY, voltages and currents can vary where YYY is optional based on the chosen YYY variant (YYY = letter(s), F for black frame, B for silver frame and black backsheet, BC for full black module)

OPERATING CONDITIONS	
Temperature range	[°C] -40 to +85
Maximum system voltage	[V] 1000
Max. series fuse rating	15A
Limiting reverse current	15A
Maximum surface load capacity	5400 Pa (Snow load)
Resistance against hail	Maximum diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS	
Temperature coefficient of $P_{MPP}$	[%/K] -0,41
Temperature coefficient of $I_{SC}$	[%/K] 0,05
Temperature coefficient of $V_{OC}$	[%/K] -0,31

