



MODEL SV54



-  Premium quality
-  Power output range 225 - 240 Wp
-  100% EL testing
-  Mechanical load up to 5400 Pa
-  Low weight
-  Module efficiency up to 16,23 %
-  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		SV54-225	SV54-230	SV54-235	SV54-240
Peak power P_{MPP}	[W]	225	230	235	240
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	8,62	8,74	8,96	9,05
Open circuit voltage V_{OC}	[V]	34,2	34,5	34,2	34,3
Rated current I_{MPP}	[A]	8,15	8,22	8,41	8,49
Rated voltage V_{MPP}	[V]	27,7	28,1	28,1	28,3
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	15,21	15,55	15,89	16,23

STC: 1000W/m² irradiance, 25 °C cell temperature, AM1,5 g spectrum according to EN 60904-3
Average relative efficiency reduction of 3,4 % at 200 W/m² according to EN 60904-1

Electrical parameters at Nominal Operating Cell Temperature (NOCT)					
MODEL		SV54-225	SV54-230	SV54-235	SV54-240
Peak power P_{MPP}	[W]	163,66	167,53	171,36	174,19
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	6,92	7,03	7,20	7,27
Open circuit voltage V_{OC}	[V]	31,6	31,8	31,6	31,7
Rated current I_{MPP}	[A]	6,45	6,51	6,66	6,72
Rated voltage V_{MPP}	[V]	25,3	25,7	25,7	25,9

NOCT: module operating parameters at 800 W/m² irradiance, 20 °C ambient temperature, 1 m/s wind speed

MECHANICAL DATA	
Dimensions (H x W x D)	[mm] 1492 x 992 x 35
Weight	[kg] 17,5
Solar cells	54 cells, polycrystalline Si, 156 x 156 mm
Cells encapsulation	Ethylene vinyl acetate (EVA)
Front	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 ² , length 1000 mm, MC4 compatible connectors

NOTE: For extended models, SV54 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 black frame and black backsheet)

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

