







MODEL SV36 E


 Premium quality

 Power output
range 160 - 170 Wp

 100% EL testing

 Mechanical load
up to 5400 Pa


 Low weight


 Module efficiency
up to 16,90 %


 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 B A B T 5715



P.I.D.
001 25638-16011
v.20160503

Electrical parameters at Standard Test Conditions (STC)				
MODEL		SV36-160 E	SV36-165 E	SV36-170 E
Peak power P_{MPP}	[W]	160	165	170
Peak power tolerance	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	9,24	9,48	9,75
Open circuit voltage V_{OC}	[V]	22,9	23,0	23,2
Rated current I_{MPP}	[A]	8,58	8,82	9,13
Rated voltage V_{MPP}	[V]	18,7	18,7	18,8
Current and voltage tolerance	[%]	± 3		
Module efficiency	[%]	15,91	16,40	16,90

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		SV36-160 E	SV36-165 E	SV36-170 E
Peak power P_{MPP}	[W]	116,38	119,66	124,46
Peak power tolerance	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	7,42	7,62	7,83
Open circuit voltage V_{OC}	[V]	21,1	21,2	21,4
Rated current I_{MPP}	[A]	6,79	6,98	7,23
Rated voltage V_{MPP}	[V]	17,1	17,1	17,2

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] 1324 x 992 x 35
Weight	[kg] 14,0
Solar cells	36 cells, monocrystalline 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 ² , length 1000 mm, MC4 compatible connectors

NOTE: For extended models, SV36 EYYY, 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 (1500 Opt. on Request)
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] -0,42
Temperature coefficient of I_{SC}	[%/K] 0,05
Temperature coefficient of V_{OC}	[%/K] -0,33

