



## MODEL SV60 E



-  Premium quality
-  Power output range 270 - 285 Wp
-  100% EL testing
-  Mechanical load up to 5400 Pa
-  Low weight
-  Module efficiency up to 17,41 %
-  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:

- 10** years manufacturing defects
- 12** years limited, 90% output power
- 25** years limited, 80% output power



Certificate Number BBT8715



Electrical parameters at Standard Test Conditions (STC)					
MODEL		SV60-270 E	SV60-275 E	SV60-280 E	SV60-285 E
Peak power $P_{MPP}$	[W]	270	275	280	285
Peak power tolerance	[W]	-0/+4,9			
Short circuit current $I_{SC}$	[A]	9,31	9,48	9,62	9,75
Open circuit voltage $V_{OC}$	[V]	38,2	38,4	38,5	38,6
Rated current $I_{MPP}$	[A]	8,67	8,84	9,00	9,14
Rated voltage $V_{MPP}$	[V]	31,2	31,1	31,2	31,3
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	16,50	16,80	17,11	17,41

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		SV60-270 E	SV60-275 E	SV60-280 E	SV60-285 E
Peak power $P_{MPP}$	[W]	196,07	199,44	203,65	207,44
Peak power tolerance	[W]	-0/+4,9			
Short circuit current $I_{SC}$	[A]	7,48	7,62	7,73	7,83
Open circuit voltage $V_{OC}$	[V]	35,3	35,4	35,5	35,6
Rated current $I_{MPP}$	[A]	6,86	7,00	7,12	7,23
Rated voltage $V_{MPP}$	[V]	28,5	28,5	28,5	28,6

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] 1650 x 992 x 40
Weight	[kg] 18,7
Solar cells	60 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 <sup>2</sup> , length 1000 mm, MC4 compatible connectors

NOTE: For extended models, SV60 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
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

