



MODEL SV60 E



-  Premium quality
-  Power output
range 290 - 310 Wp
-  100% EL testing
-  Mechanical load
up to 5400 Pa
-  Low weight
-  Module efficiency
up to 19,55 %
-  Positive power
tolerance -0/+4,9 W
-  Made in Europe
-  IEC EN 6121
IEC EN 61730-1,-2
-  IEC EN 62716 Ed.1 -
Final draft
-  IEC 61701
(Salt Mist Severity 3)
-  IEC TS 62804-1
(PID resistance)

Warranty:

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



Electrical parameters at Standard Test Conditions (STC)					
MODEL	SV60-290 E	SV60-295 E	SV60-300 E	SV60-305 E	SV60-310 E
Peak power P_{MPP} [W]	290	295	300	305	310
Peak power tolerance [W]	-0/+4,9				
Short circuit current I_{SC} [A]	9,70	9,74	9,77	9,83	9,88
Open circuit voltage V_{OC} [V]	38,5	38,9	39,3	39,7	40,0
Rated current I_{MPP} [A]	9,27	9,28	9,30	9,36	9,40
Rated voltage V_{MPP} [V]	31,4	31,9	32,3	32,7	33,0
Current and voltage tolerance [%]	± 3				
Module efficiency [%]	17,82	18,13	18,44	18,74	19,05

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	SV60-290 E	SV60-295 E	SV60-300 E	SV60-305 E	SV60-310 E
Peak power P_{MPP} [W]	181,9	186,2	189,4	192,5	196,7
Peak power tolerance [W]	-0/+4,9				
Short circuit current I_{SC} [A]	7,79	7,82	7,85	7,89	7,93
Open circuit voltage V_{OC} [V]	35,4	35,8	36,1	36,5	36,8
Rated current I_{MPP} [A]	7,42	7,43	7,44	7,49	7,52
Rated voltage V_{MPP} [V]	28,6	29,0	29,4	29,7	30,0

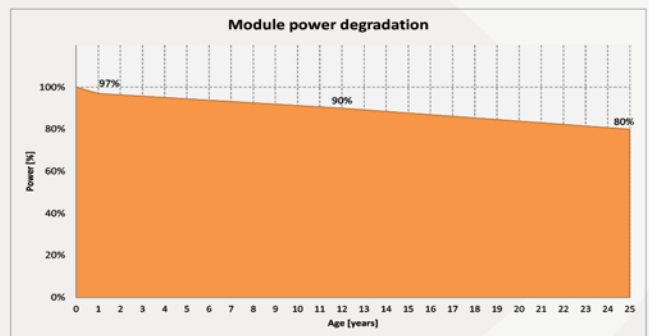
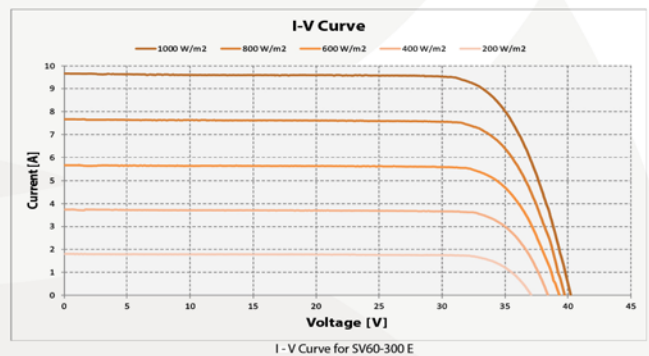
NOCT: module operating parameters at 800 W/m² irradiance, 20 °C ambient temperature, 1 m/s wind speed

MECHANICAL DATA	
Dimensions (H x W x D) [mm]	1640 x 992 x 40 / 1640 x 992 x 35
Weight [kg]	18,3 / 18,0
Solar cells	60 cells, monocrystalline Si, 156 x 156 mm +/- 1mm
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, GZX or PV4 connectors

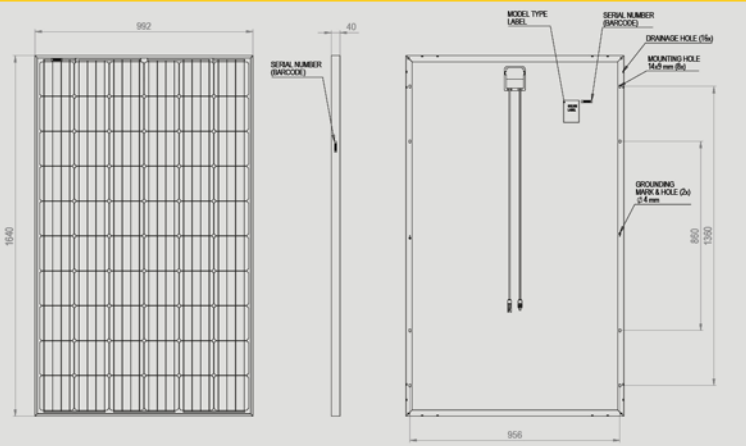
NOTE: For extended models, SV60 YYY, voltages and currents can vary where YYY is optional based on the chosen YYY variant (YYY = letter(s), F for black frame, B for silver frame and black backsheet, BC for black frame and black backsheet)

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]	-0,42
Temperature coefficient of I_{SC} [%/K]	0,05
Temperature coefficient of V_{OC} [%/K]	-0,33



1640x992x40



1640x992x35

