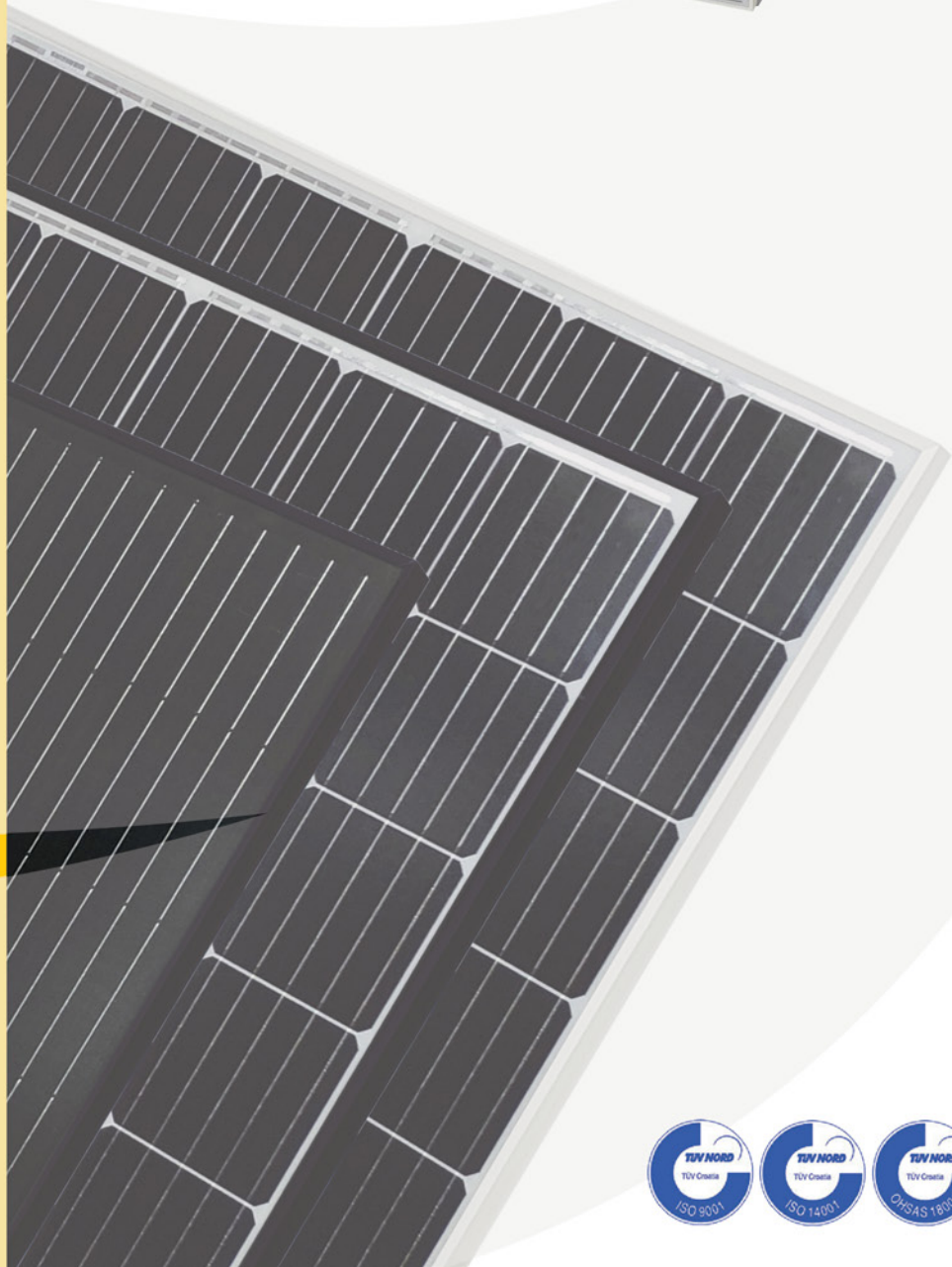




MODEL SV60 E



-  Premium quality
-  Power output range 290-310 Wp
-  100% EL testing
-  Mechanical load up to 5400 Pa
-  Low weight
-  Module efficiency up to 19,05 %
-  Positive power tolerance -0/+4,9 W
-  Made in Europe
-  IEC EN 61215
IEC EN 61730-1, -2
-  IEC EN 62716 Ed.1
-  IEC EN 61701
-  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]	9,69	9,73	9,73	9,76	9,81
Open circuit voltage V_{OC}	[V]	39,94	39,54	40,14	40,26	40,38
Rated current I_{MPP}	[A]	9,16	9,20	9,13	9,23	9,36
Rated voltage V_{MPP}	[V]	32,03	32,14	33,03	33,13	33,28
Current and voltage tolerance	[%]	± 3				
Module efficiency	[%]	17,83	18,13	18,44	18,75	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]	213,5	215,2	219,4	222,5	226,7
Peak power tolerance	[W]	-0/+4,9				
Short circuit current I_{SC}	[A]	7,78	7,81	7,81	7,84	7,88
Open circuit voltage V_{OC}	[V]	35,9	36,4	36,9	37,0	37,1
Rated current I_{MPP}	[A]	7,34	7,37	7,31	7,39	7,48
Rated voltage V_{MPP}	[V]	29,1	29,2	30,0	30,1	30,3

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
Weight	[kg] 18,3
Solar cells	60 cells, monocrystalline Si (PERC), 156 x 156 mm +/- 1mm
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 1200 mm

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		Max. 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

