



GLASS-GLASS PHOTOVOLTAIC MODULES

MODEL SV60 E GG SV60 E GG L



Premium quality



Power output
range 285 - 300 Wp



100% EL testing



Mechanical load
up to 5400 Pa



Low weight



Module efficiency
up to 18,01 %



Positive power
tolerance -0/+4,9 W



Made in Europe



More durability



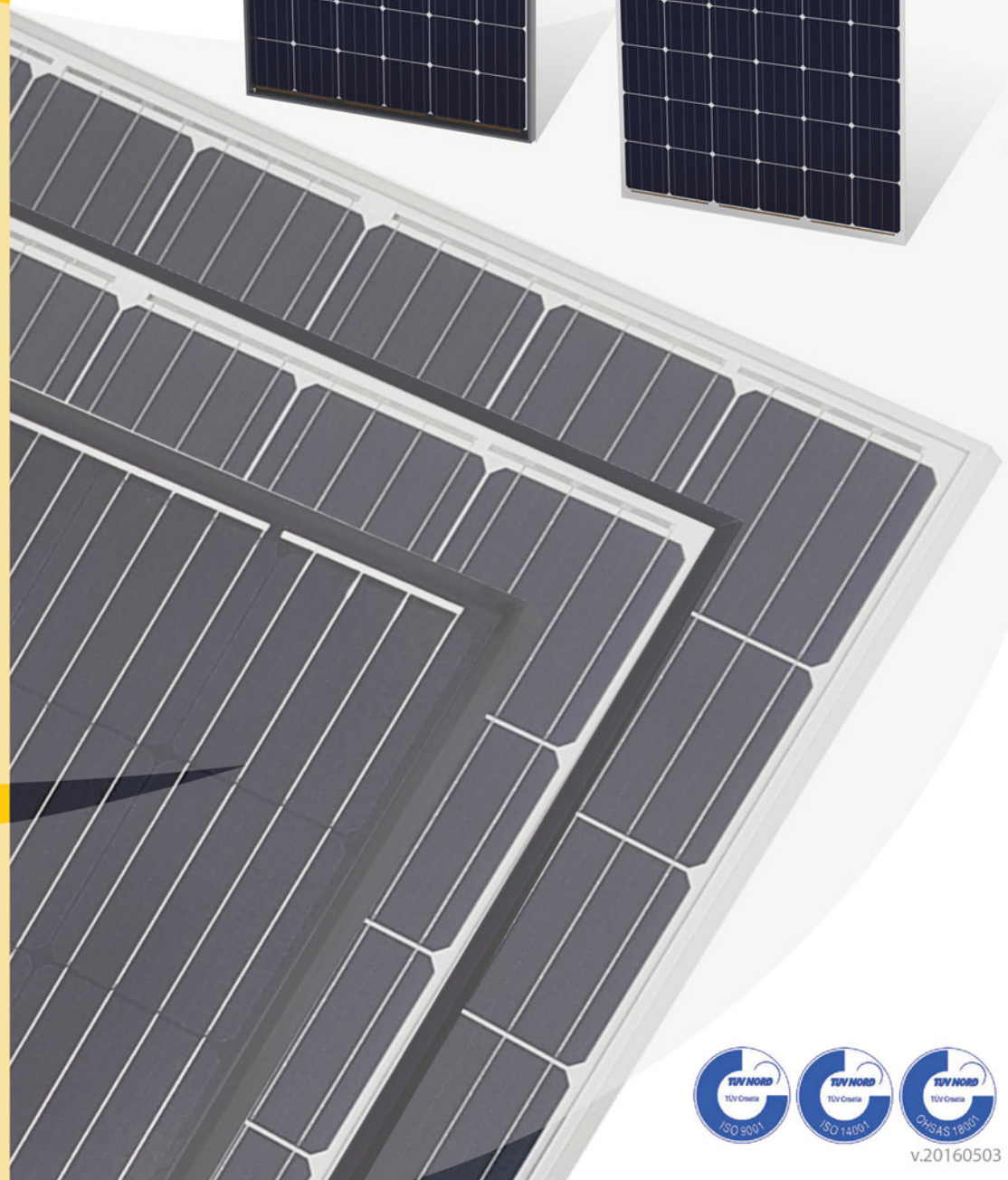
IEC EN 61215 in progress



IEC EN 61730 - 1
in progress



internal PID test passed



Warranty:

30 years manufacturing defects

15 years limited,
90% output power

30 years limited,
80% output power



v.20160503

Electrical parameters at Standard Test Conditions (STC)				
MODEL	SV60-285 E GG22 / SV60-285 E GG22 L	SV60-290 E GG22 / SV60-290 E GG22 L	SV60-295 E GG22 / SV60-295 E GG22 L	SV60-300 E GG22 / SV60-300 E GG22 L
Peak power P_{MPP} [W]	285	290	295	300
Peak power tolerance [W]	-0/+4,9			
Short circuit current I_{SC} [A]	9,53	9,62	9,72	9,80
Open circuit voltage V_{OC} [V]	39,60	39,7	39,9	40,0
Rated current I_{MPP} [A]	8,88	8,93	9,06	9,13
Rated voltage V_{MPP} [V]	32,20	32,5	32,7	32,9
Current and voltage tolerance [%]	± 3			
Module efficiency [%]	17,11	17,41	17,71	18,01

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	SV60-285 E GG22 / SV60-285 E GG22 L	SV60-290 E GG22 / SV60-290 E GG22 L	SV60-295 E GG22 / SV60-295 E GG22 L	SV60-300 E GG22 / SV60-300 E GG22 L
Peak power P_{MPP} [W]	207,44	210,38	214,84	217,91
Peak power tolerance [W]	-0/+4,9			
Short circuit current I_{SC} [A]	7,66	7,73	7,81	7,87
Open circuit voltage V_{OC} [V]	36,6	36,6	36,8	36,9
Rated current I_{MPP} [A]	7,03	7,06	7,17	7,23
Rated voltage V_{MPP} [V]	29,5	29,7	29,9	30,1

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) SV60-XXX E GG22 / SV60-XXX E GG22 L	[mm] 1681 x 991 x 35 / 1674 x 984 x 5
Weight SV60-XXX E GG22 / SV60-XXX E GG22 L	[kg] 21,5 / 19,0
Solar cells	60 cells, monocrystalline Si, 156 x 156 mm
Cells encapsulation	Ethylene vinyl acetate (EVA)
Front	Solar glass, 2,1 mm
Back	Float or solar glass, 2,1 mm
Frame SV60-XXX E GG22 / SV60-XXX E GG22 L	Anodized aluminium frame with twin-wall profile and drainage holes / None
Junction box	IP67 with 3 Bypass diodes
Cable and connectors	Solar cable 4 mm ² , length 1000 mm, MC4 pluggable

NOTE: For extended models, SV60 E GG 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 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

