



MODEL SV60 GG22 F

glass-glass
transparent (standard)
white or black variant



HIGH EFFICIENCY



Premium quality



Power output
range 270 - 285 Wp



100% EL testing



Mechanical load
up to 5400 Pa



Low weight



Module efficiency
up to 17,09 %



Positive power
tolerance -0/+4,9 W



Made in Europe



IEC EN 61215
IEC EN 61730-1, -2



IEC 62716 Ed.1



IEC 61701



PID test passed

Warranty:



30 years manufacturing defects



30 years limited,
80% output power



Electrical parameters at Standard Test Conditions (STC)					
MODEL		SV60-270	SV60-275	SV60-280	SV60-285
Peak power P_{MPP}	[W]	270	275	280	285
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	8,80	8,87	9,03	9,07
Open circuit voltage V_{OC}	[V]	38,10	38,40	39,42	39,72
Rated current I_{MPP}	[A]	8,43	8,50	8,58	8,62
Rated voltage V_{MPP}	[V]	32,16	32,38	32,76	33,11
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	16,19	16,49	16,79	17,09

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		SV60-270	SV60-275	SV60-280	SV60-285
Peak power P_{MPP}	[W]	195,7	198,7	202,9	206,0
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	7,11	7,17	7,30	7,33
Open circuit voltage V_{OC}	[V]	34,7	35,0	35,9	36,2
Rated current I_{MPP}	[A]	6,82	6,87	6,95	6,96
Rated voltage V_{MPP}	[V]	28,7	28,9	29,2	29,6

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] 1681 x 992 x 35
Weight	[kg] 21,5
Solar cells	60 cells, polycrystalline Si, 156 x 156 mm +/- 1 mm
Cells encapsulation	Ethylene vinyl acetate (EVA)
Front	Solar glass, 2,1 mm
Back	Solar glass, 2,1 mm
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: Transparent GG modules let natural light through so the module is very convenient for use as BIPV product (transparency level can also be adjusted). GG modules can also be ordered in white back color for better energy yield.

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]	-0,41
Temperature coefficient of I_{SC}	[%/K]	-0,05
Temperature coefficient of V_{OC}	[%/K]	-0,31

