



MODEL SV108 E F GG22 HCM10
TOPCon technology
Bifacial

430 W

Maximum power output

-0/+4,9 W

Positive power sorting

22,02%

Maximum Efficiency



Premium quality



100% EL testing



Power output range
420-430 Wp



Mechanical load
down to 5400 Pa*



Low weight



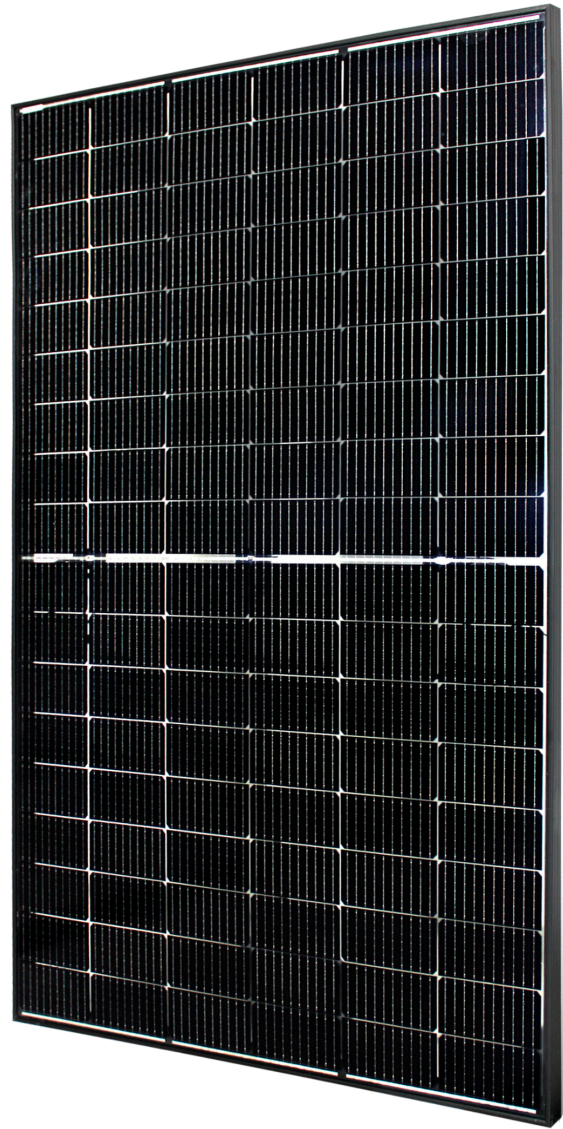
EN IEC 61215-1,-1-1,-2
EN IEC 61730-1, -2



Module efficiency
up to **22,02%**



Made in Europe



Warranty:

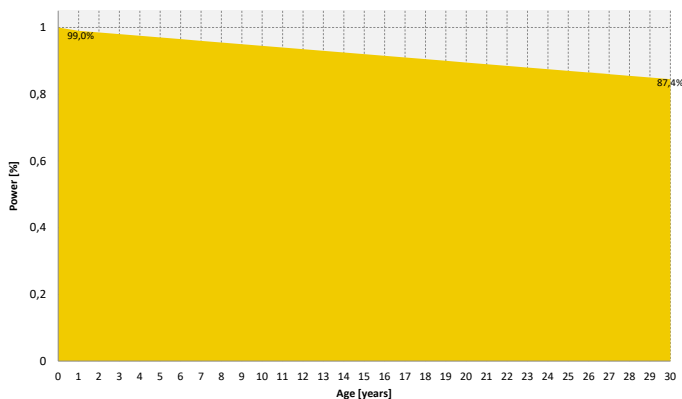


30 years manufacturing
defects



30 years limited,
87,4% output power

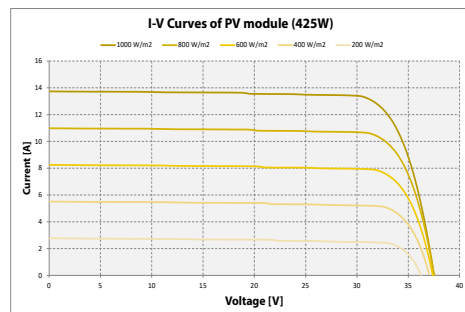
Module power degradation:



Electrical parameters at Standard Test Conditions (STC)

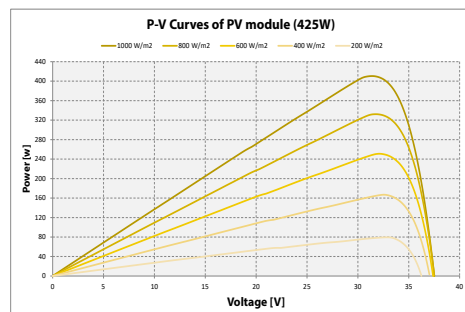
MODEL		SV108-420 E F GG22 HCM10	SV108-425 E F GG22 HCM10	SV108-430 E F GG22 HCM10
Peak power P_{MPP}	[W]	420	425	430
Peak power sorting	[W]		-0/+4,9	
Short circuit current I_{SC}	[A]	14,15	14,23	14,31
Open circuit voltage V_{OC}	[V]	37,89	38,07	38,25
Rated current I_{MPP}	[A]	13,40	13,48	13,56
Rated voltage V_{MPP}	[V]	31,36	31,55	31,73
Module efficiency	[%]	21,51	21,76	22,02
Cell efficiency	[%]	>24,4	>24,7	>25,0

STC: 1000 W/m² irradiance, 25 °C cell temperature, AM 1,5 g spectrum according to EN 60904-3. Machine measurement tolerance: +/- 3%. Machine measurement rating: AAA. Primary electrical value for product type rating is P_{mpp}. I and V values can vary up to +/- 10% for the same P_{mpp} rating. Average relative efficiency reduction of 3,4% at 200 W/m² according to EN 60904-1.


Electrical parameters at Nominal Module Operating Temperature (NMOT)

MODEL		SV108-420 E F GG22 HCM10	SV108-425 E F GG22 HCM10	SV108-430 E F GG22 HCM10
Peak power P_{MPP}	[W]	318,0	321,8	325,6
Short circuit current I_{SC}	[A]	11,43	11,50	11,56
Open circuit voltage V_{OC}	[V]	36,0	36,2	36,3
Rated current I_{MPP}	[A]	10,67	10,73	10,78
Rated voltage V_{MPP}	[V]	29,8	30,0	30,2

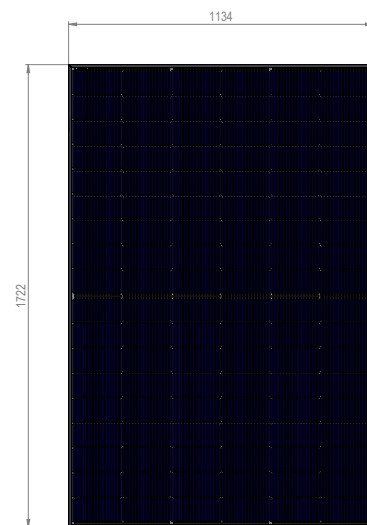
NMOT: module operating parameters at 800 W/m² irradiance, 20 °C ambient temperature, 1 m/s wind speed.


Electrical parameters at Bifacial Name Plate Irradiance (BNPI)

MODEL		SV108-420 E F GG22 HCM10	SV108-425 E F GG22 HCM10	SV108-430 E F GG22 HCM10
Peak power P_{MPP}	[W]	462	468	473
Short circuit current I_{SC}	[A]	15,68	15,77	15,86
Open circuit voltage V_{OC}	[V]	37,89	38,07	38,25
Rated current I_{MPP}	[A]	14,73	14,83	14,91
Rated voltage V_{MPP}	[V]	31,36	31,55	31,73

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	1722 x 1134 x 30
Weight	[kg]	24,3
Solar cells		TOPCon, 108 cells, mono-Si, 182x91 mm +/- 1 mm
Front		AR Coated, Tempered solar glass, 2,0 mm
Back		semi-tempered glass 2,0 mm
Frame		Black anodized aluminum frame with twin-wall profile and drainage holes
Junction box		IP68 with 3 Bypass diodes
Cable and connectors		Solar cable 4 mm ² , length 1100 mm, MC4 compatible connectors


OPERATING CONDITIONS

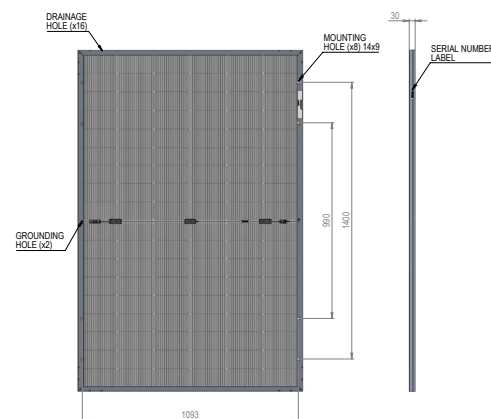
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating	[A]	30
Limiting reverse current	[A]	25
Maximum surface load capacity	[Pa]	Down: 5400*
		Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS

Temperature coefficient of P_{MPP}	[%/K]	-0,289
Temperature coefficient of I_{SC}	[%/K]	0,045
Temperature coefficient of V_{OC}	[%/K]	-0,244

PACKAGING:

Quantity/Pallet	pcs	36
Truck	pcs	936
Pallets	pcs	26



*Please refer to installation manual

