



MODEL SV108 E F GG22 HCG12R

TOPCon technology

Bifacial

520 W

Maximum power output

-0/+4,9 W

Positive power sorting

23,38%

Maximum Efficiency



Premium quality



100% EL testing



Power output range
510-520 W



Mechanical load
up to 5400 Pa*



Module efficiency
up to **23,38%**



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



Made-in-Europe-Bonus



Made in Europe



ENEA Register



Net-Zero Industry Act

Warranty:

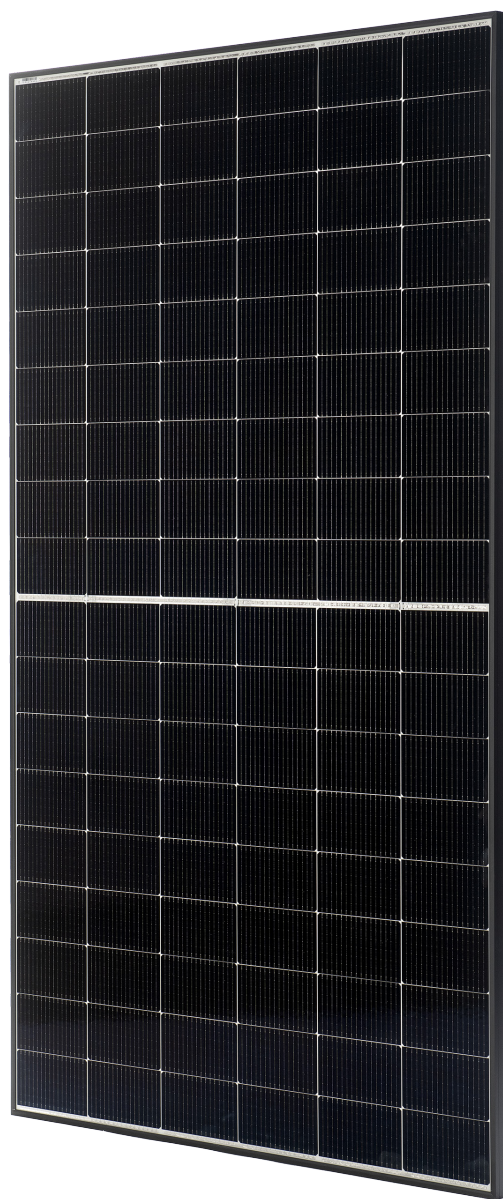
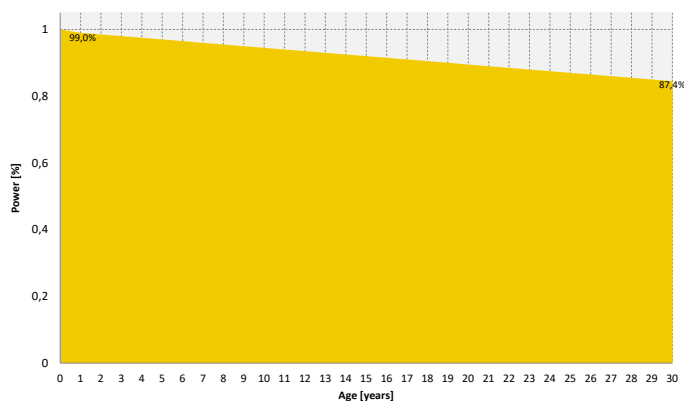


years manufacturing
defects



years limited,
87,4% output power

Module power degradation:



GG22_HCG12R_Global_P+_30_20260603

Electrical parameters at Standard Test Conditions (STC)

MODEL		SV108-510 E F GG22 HCG12R	SV108-515 E F GG22 HCG12R	SV108-520 E F GG22 HCG12R
Peak power P_{MPP}	[W]	510	515	520
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	15,96	16,04	16,12
Open circuit voltage V_{OC}	[V]	40,33	40,47	40,61
Rated current I_{MPP}	[A]	15,26	15,34	15,42
Rated voltage V_{MPP}	[V]	33,43	33,58	33,73
Module efficiency	[%]	22,93	23,16	23,38
Cell efficiency	[%]	>25,2	>25,4	>25,6

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		SV108-510 E F GG22 HCG12R	SV108-515 E F GG22 HCG12R	SV108-520 E F GG22 HCG12R
Peak power P_{MPP}	[W]	386,2	390,0	393,7
Short circuit current I_{SC}	[A]	12,89	12,96	13,02
Open circuit voltage V_{OC}	[V]	38,3	38,4	38,6
Rated current I_{MPP}	[A]	12,14	12,22	12,27
Rated voltage V_{MPP}	[V]	31,8	31,9	32,1

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		SV108-510 E F GG22 HCG12R	SV108-515 E F GG22 HCG12R	SV108-520 E F GG22 HCG12R
Peak power P_{MPP}	[W]	561	567	572
Short circuit current I_{SC}	[A]	17,68	17,77	17,86
Open circuit voltage V_{OC}	[V]	40,33	40,47	40,61
Rated current I_{MPP}	[A]	16,78	16,89	16,96
Rated voltage V_{MPP}	[V]	33,43	33,58	33,73

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	1961 x 1134 x 35
Weight	[kg]	27,9
Solar cells		TOPCon, 108 cells, mono-Si, 182x105 mm ± 1 mm
Front		AR Coated, heat strengthened glass, 2,0 mm
Back		heat strengthened glass 2,0 mm, transparent or with black or white mesh
Frame		Black anodized aluminium 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, Stäubli MC4/EVO2 connectors

OPERATING CONDITIONS

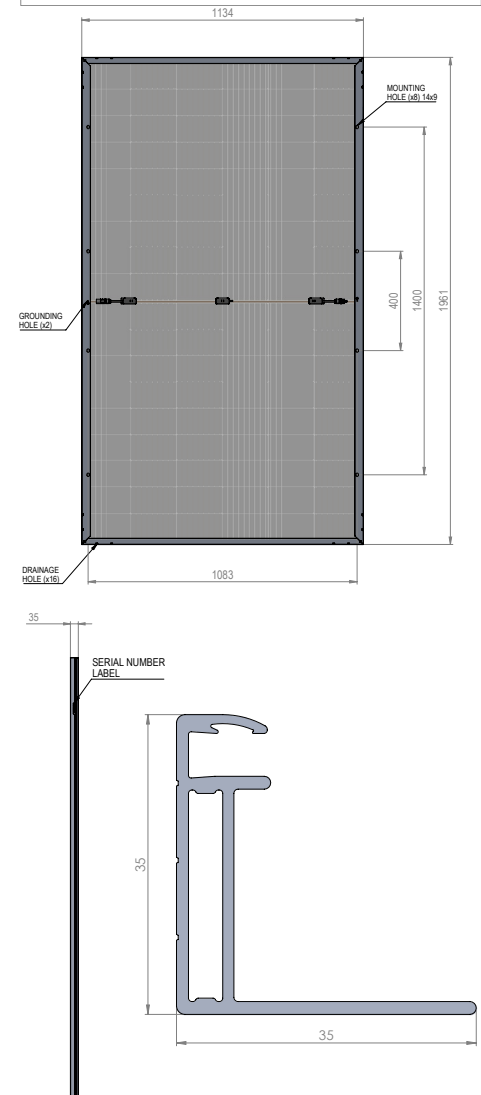
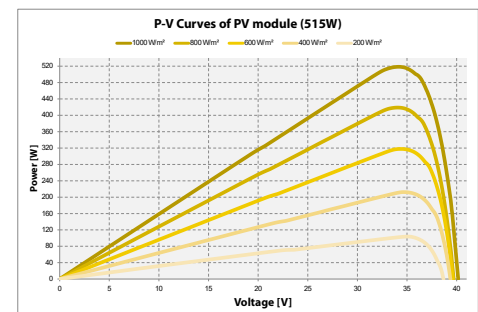
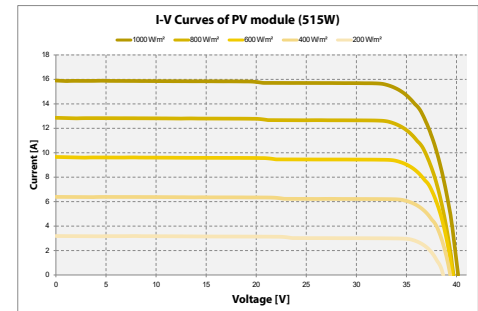
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating	[A]	30
Limiting reverse current	[A]	25
Maximum surface load capacity	[Pa]	Down: 5400*
		Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS

Temperature coefficient of P_{MPP}	[%/K]	-0,29
Temperature coefficient of I_{SC}	[%/K]	0,045
Temperature coefficient of V_{OC}	[%/K]	-0,24

PACKAGING:

Quantity/Pallet	pcs	31
Truck	pcs	806
Pallets	pcs	26



*Please refer to installation manual

