



MODEL SV108 E F HCG12R

TOPCon technology

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*



Low weight



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



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



Made in Europe



Transizione 5.0



Made-in-Europe-Bonus

Warranty:

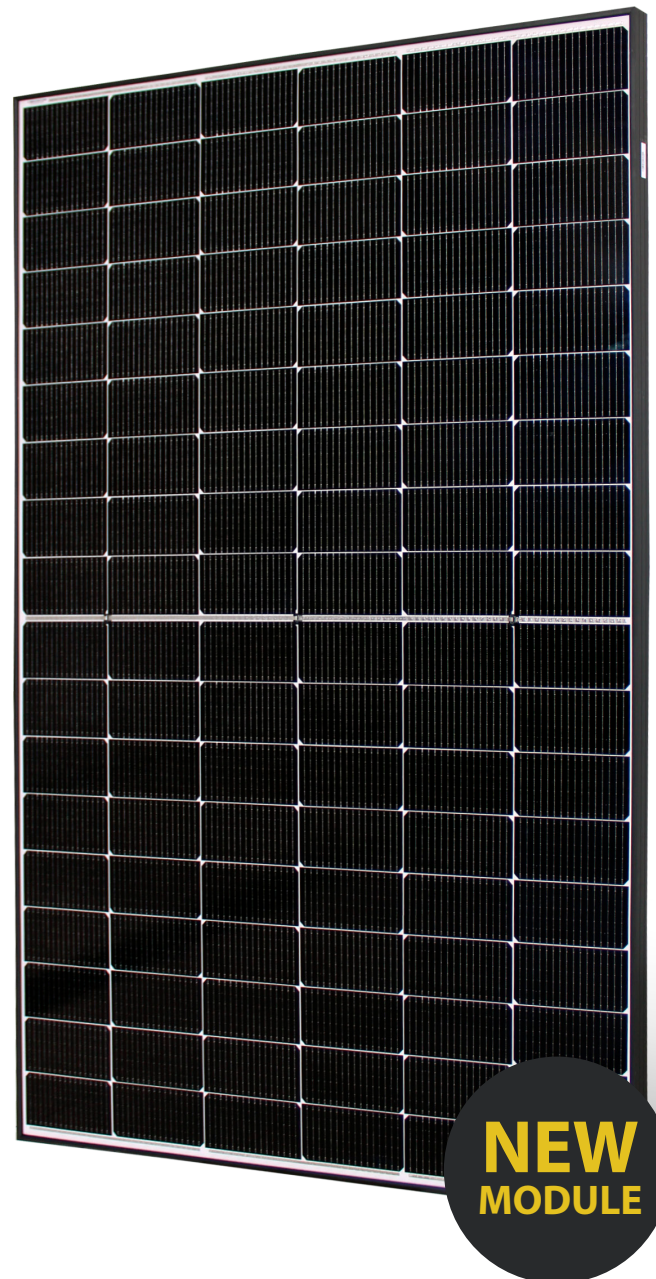
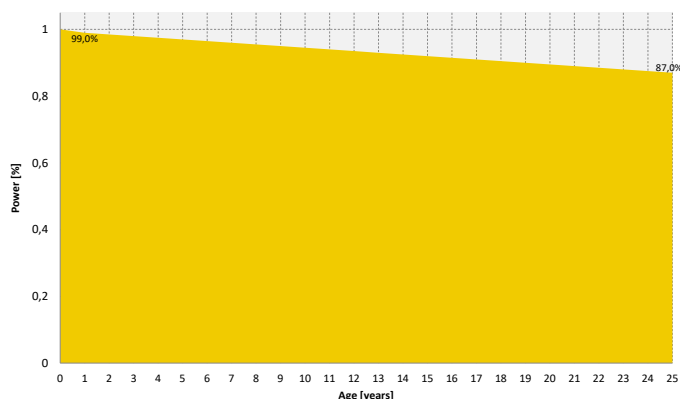


years manufacturing
defects



years limited,
87% output power

Module power degradation:



Electrical parameters at Standard Test Conditions (STC)

MODEL		SV108-510 E F HCG12R	SV108-515 E F HCG12R	SV108-520 E F HCG12R
Peak power P_{MPP}	[W]	510	515	520
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	15,98	16,06	16,14
Open circuit voltage V_{OC}	[V]	40,19	40,33	40,47
Rated current I_{MPP}	[A]	15,28	15,36	15,44
Rated voltage V_{MPP}	[V]	33,38	33,53	33,68
Module efficiency	[%]	22,93	23,16	23,38
Cell efficiency	[%]	>25,0	>25,2	>25,4

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 HCG12R	SV108-515 E F HCG12R	SV108-520 E F HCG12R
Peak power P_{MPP}	[W]	386,2	390,0	393,7
Short circuit current I_{SC}	[A]	12,91	12,97	13,04
Open circuit voltage V_{OC}	[V]	38,2	38,3	38,4
Rated current I_{MPP}	[A]	12,18	12,22	12,30
Rated voltage V_{MPP}	[V]	31,7	31,9	32,0

NMOT: 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]	1961 x 1134 x 35
Weight	[kg]	22,8
Solar cells		TOPCon, 108 cells, mono-Si, 182x105 mm ± 1 mm
Front		AR Coated, Tempered solar glass, 3,2 mm
Back		Composite polyester film
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]	25
Limiting reverse current	[A]	20
Maximum surface load capacity	[Pa]	Down: 5400* Up: 2400
Resistance against hail		Max. diameter of 35 mm with impact speed 27,2 m/s

*Please refer to installation manual

THERMAL CHARACTERISTICS

Temperature coefficient of P_{MPP}	[%/K]	-0,32
Temperature coefficient of I_{SC}	[%/K]	0,033
Temperature coefficient of V_{OC}	[%/K]	-0,22

PACKAGING:

Quantity/Pallet	pcs	31
Truck	pcs	806
Pallets	pcs	26

