



MODEL SV132 E GG22 HCG12R

TOPCon technology

Bifacial

635 W

Maximum power output

-0/+4,9 W

Positive power sorting

23,51%

Maximum Efficiency



Premium quality



100% EL testing



Power output range
625-635 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 23,51%



Made in Europe



Transizione 5.0



Made-in-Europe-Bonus

Warranty:

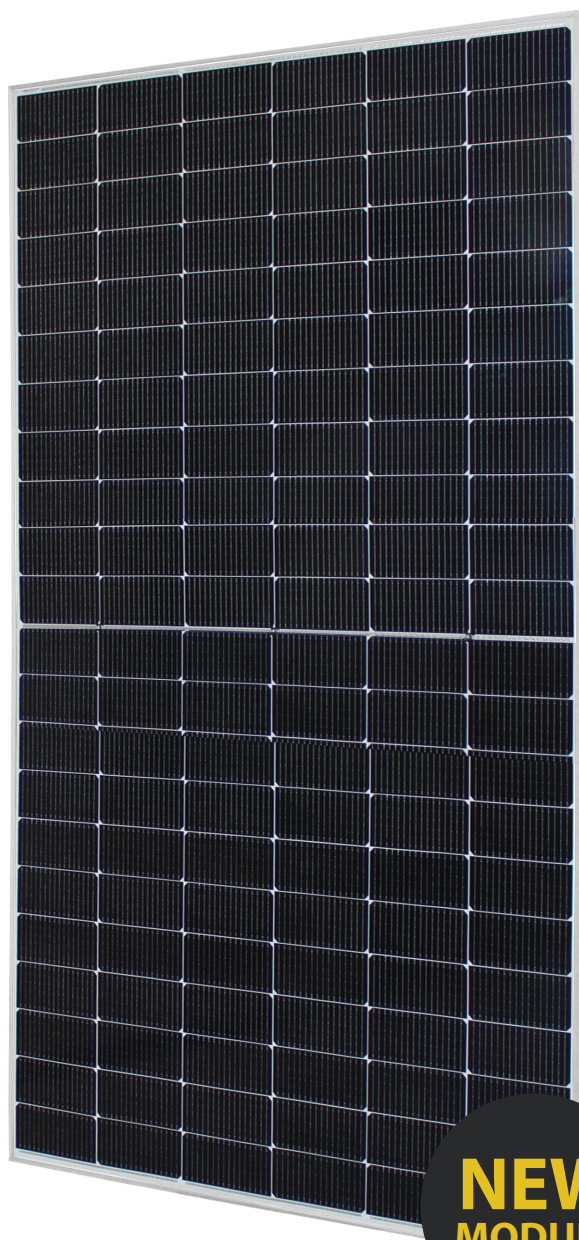
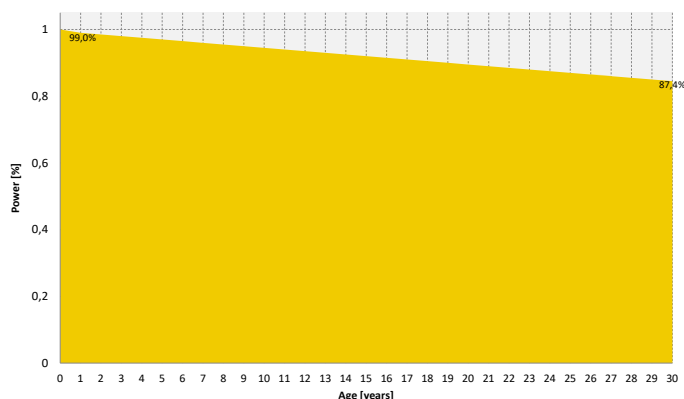


30 years manufacturing
defects



30 years limited,
87,4% output power

Module power degradation:



NEW MODULE



GG22_HCG12R_Global_P+_30_20250725

Electrical parameters at Standard Test Conditions (STC)

MODEL		SV132-625 E GG22 HCG12R	SV132-630 E GG22 HCG12R	SV132-635 E GG22 HCG12R
Peak power P_{MPP}	[W]	625	630	635
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	15,98	16,04	16,10
Open circuit voltage V_{OC}	[V]	49,46	49,63	49,80
Rated current I_{MPP}	[A]	15,25	15,30	15,35
Rated voltage V_{MPP}	[V]	40,99	41,18	41,37
Module efficiency	[%]	23,14%	23,32%	23,51%
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		SV132-625 E GG22 HCG12R	SV132-630 E GG22 HCG12R	SV132-635 E GG22 HCG12R
Peak power P_{MPP}	[W]	473,2	477,0	480,8
Short circuit current I_{SC}	[A]	12,91	12,96	13,01
Open circuit voltage V_{OC}	[V]	47,0	47,1	47,3
Rated current I_{MPP}	[A]	12,13	12,20	12,23
Rated voltage V_{MPP}	[V]	39,0	39,1	39,3

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		SV132-625 E GG22 HCG12R	SV132-630 E GG22 HCG12R	SV132-635 E GG22 HCG12R
Peak power P_{MPP}	[W]	688	693	699
Short circuit current I_{SC}	[A]	17,71	17,77	17,84
Open circuit voltage V_{OC}	[V]	49,46	49,63	49,80
Rated current I_{MPP}	[A]	16,78	16,83	16,90
Rated voltage V_{MPP}	[V]	40,99	41,18	41,37

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	2382 x 1134 x 35
Weight	[kg]	33
Solar cells		TOPCon, 132 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		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

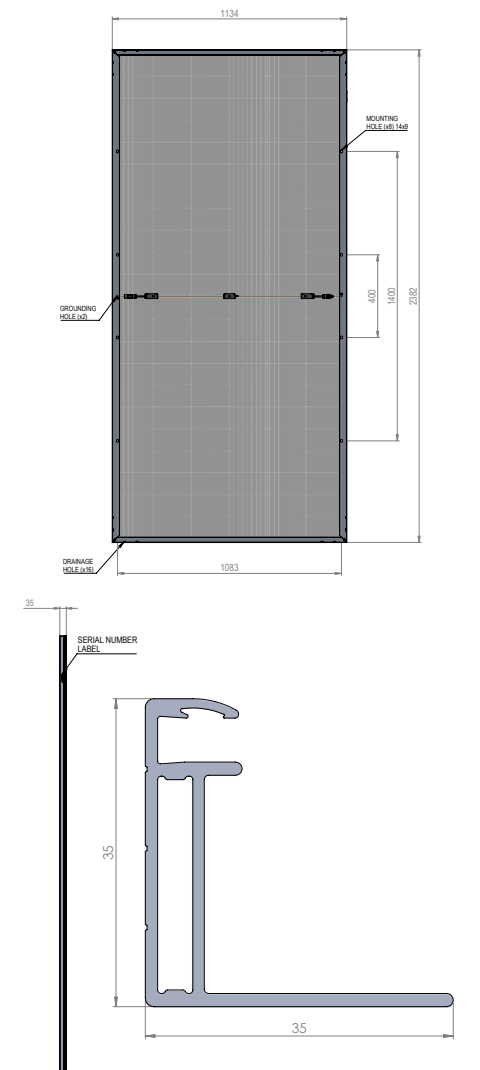
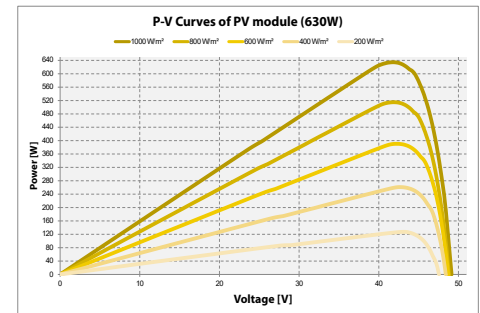
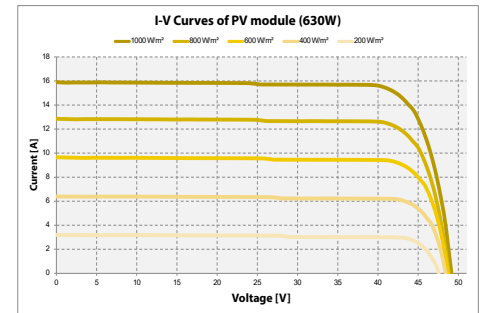
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating	[A]	30
Limiting reverse current	[A]	25
Maximum surface load capacity	[Pa]	Down: 5400* Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

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	682
Pallets	pcs	22



*Please refer to installation manual

