



MODEL SV120 E F GG22 HCM10

TOPCon technology

Bifacial

490 W

Maximum power output

-0/+4,9 W

Positive power sorting

22,63%

Maximum Efficiency



Premium quality



100% EL testing



Power output range
480-490 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 22,63%



Made in Europe



Transizione 5.0



Made-in-Europe-Bonus

Warranty:

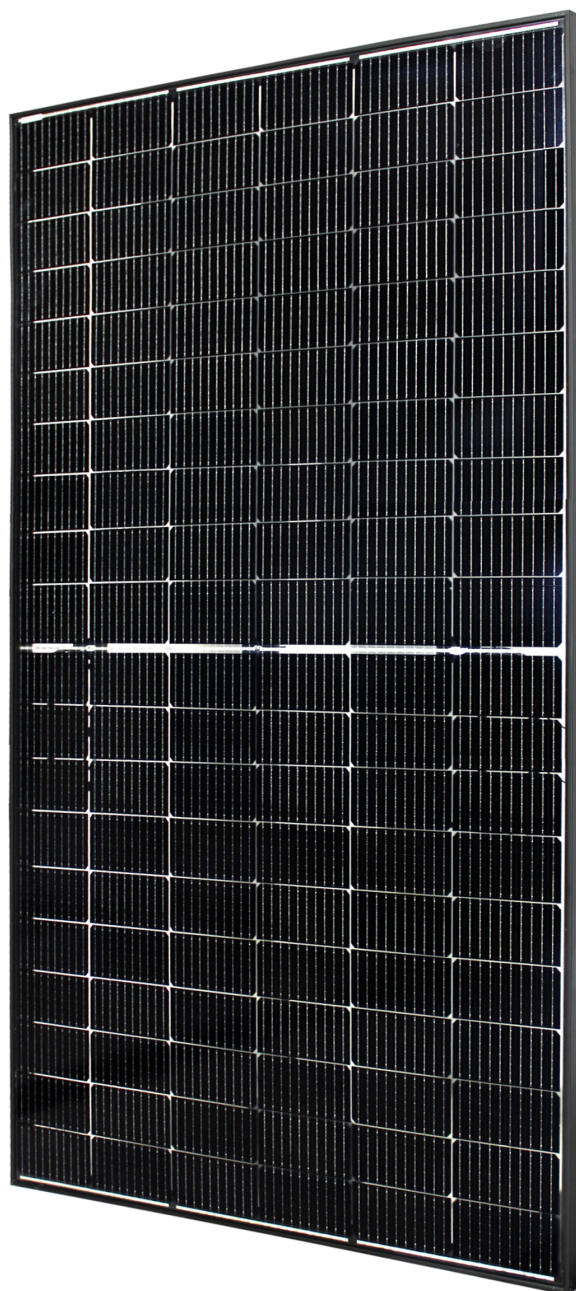
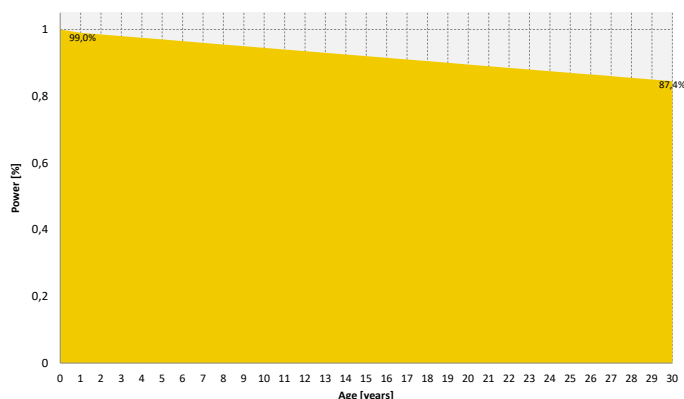


30 years manufacturing
defects



30 years limited,
87,4% output power

Module power degradation:



Electrical parameters at Standard Test Conditions (STC)

MODEL		SV120-480 E F GG22 HCM10	SV120-485 E F GG22 HCM10	SV120-490 E F GG22 HCM10
Peak power P_{MPP}	[W]	480	485	490
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	14,39	14,47	14,55
Open circuit voltage V_{OC}	[V]	42,86	42,98	43,1
Rated current I_{MPP}	[A]	13,67	13,75	13,83
Rated voltage V_{MPP}	[V]	35,13	35,28	35,44
Module efficiency	[%]	22,17	22,40	22,63
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		SV120-480 E F GG22 HCM10	SV120-485 E F GG22 HCM10	SV120-490 E F GG22 HCM10
Peak power P_{MPP}	[W]	363,4	367,2	371,0
Short circuit current I_{SC}	[A]	11,63	11,69	11,75
Open circuit voltage V_{OC}	[V]	40,7	40,8	40,9
Rated current I_{MPP}	[A]	10,88	10,96	11,01
Rated voltage V_{MPP}	[V]	33,4	33,5	33,7

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		SV120-480 E F GG22 HCM10	SV120-485 E F GG22 HCM10	SV120-490 E F GG22 HCM10
Peak power P_{MPP}	[W]	528	534	539
Short circuit current I_{SC}	[A]	15,94	16,03	16,12
Open circuit voltage V_{OC}	[V]	42,86	42,98	43,1
Rated current I_{MPP}	[A]	15,03	15,14	15,21
Rated voltage V_{MPP}	[V]	35,13	35,28	35,44

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	1909 x 1134 x 35
Weight	[kg]	26,8
Solar cells		TOPCon, 120 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, Stäubli MC4/EVO2 connectors

OPERATING CONDITIONS

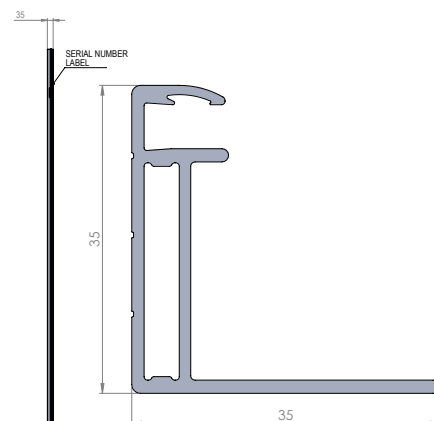
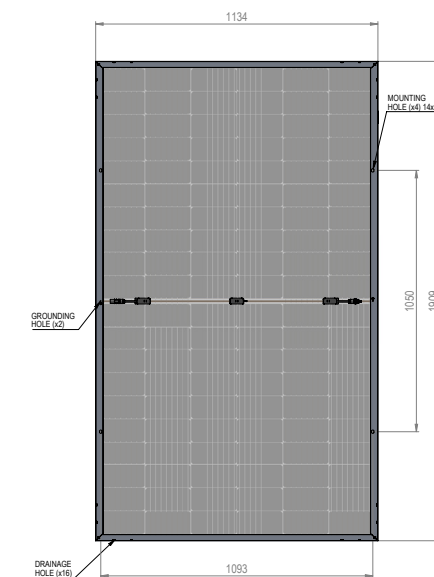
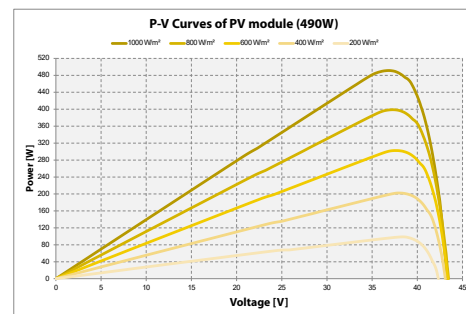
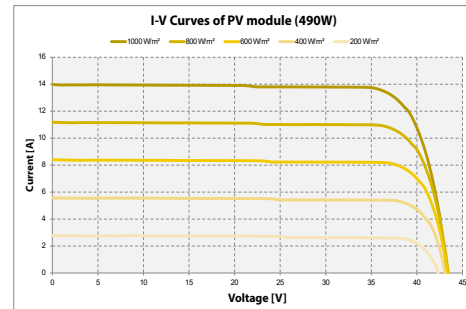
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating	[A]	30
Limiting reverse current	[A]	25
Maximum surface load capacity	[Pa]	Down: 5400* Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS

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

PACKAGING:

Quantity/Pallet	pcs	31
Truck	pcs	806
Pallets	pcs	26



*Please refer to installation manual

