



MODEL SV120 E F GG22 HCM10

TOPCon technology
Bifacial



Premium quality



Power output
range 470-480 Wp



100% EL testing



Mechanical load
up to 5400 Pa*



Module efficiency
up to 22,17%



Positive power
sorting -0/+4,9 W



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

Warranty:

15

years manufacturing defects

30

years limited,
87,4% output power



Electrical parameters at Standard Test Conditions (STC)				
MODEL		SV120-470 E F GG22 HCM10	SV120-475 E F GG22 HCM10	SV120-480 E F GG22 HCM10
Peak power P_{MPP}	[W]	470	475	480
Peak power sorting	[W]		-0/+4,9	
Short circuit current I_{SC}	[A]	14,23	14,31	14,39
Open circuit voltage V_{OC}	[V]	42,42	42,63	42,86
Rated current I_{MPP}	[A]	13,51	13,59	13,67
Rated voltage V_{MPP}	[V]	34,81	34,97	35,13
Module efficiency	[%]	21,71	21,94	22,17
Cell efficiency	[%]	>24,4	>24,7	>25,0

STC: 1000W/m² irradiance, 25 °C cell temperature, AM1, 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		SV120-470 E F GG22 HCM10	SV120-475 E F GG22 HCM10	SV120-480 E F GG22 HCM10
Peak power P_{MPP}	[W]	355,9	359,7	363,4
Short circuit current I_{SC}	[A]	11,50	11,56	11,63
Open circuit voltage V_{OC}	[V]	40,3	40,5	40,7
Rated current I_{MPP}	[A]	10,75	10,83	10,88
Rated voltage V_{MPP}	[V]	33,1	33,2	33,4

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		SV120-470 E F GG22 HCM10	SV120-475 E F GG22 HCM10	SV120-480 E F GG22 HCM10
Peak power P_{MPP}	[W]	517	523	528
Short circuit current I_{SC}	[A]	15,77	15,86	15,94
Open circuit voltage V_{OC}	[V]	42,42	42,63	42,86
Rated current I_{MPP}	[A]	14,85	14,96	15,03
Rated voltage V_{MPP}	[V]	34,81	34,97	35,13

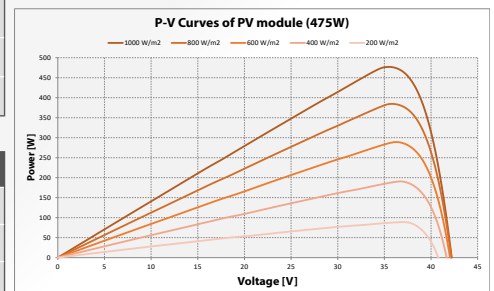
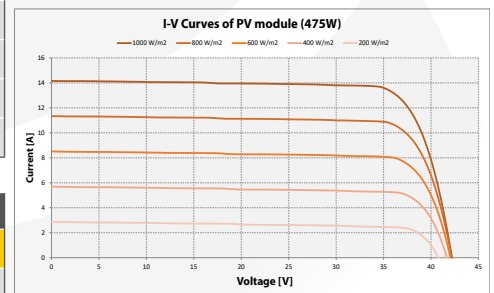
BNPI: 1000 W/m² irradiance on module front side and 135 W/m² irradiance on module rear side

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, 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

*Please refer to installation manual

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

