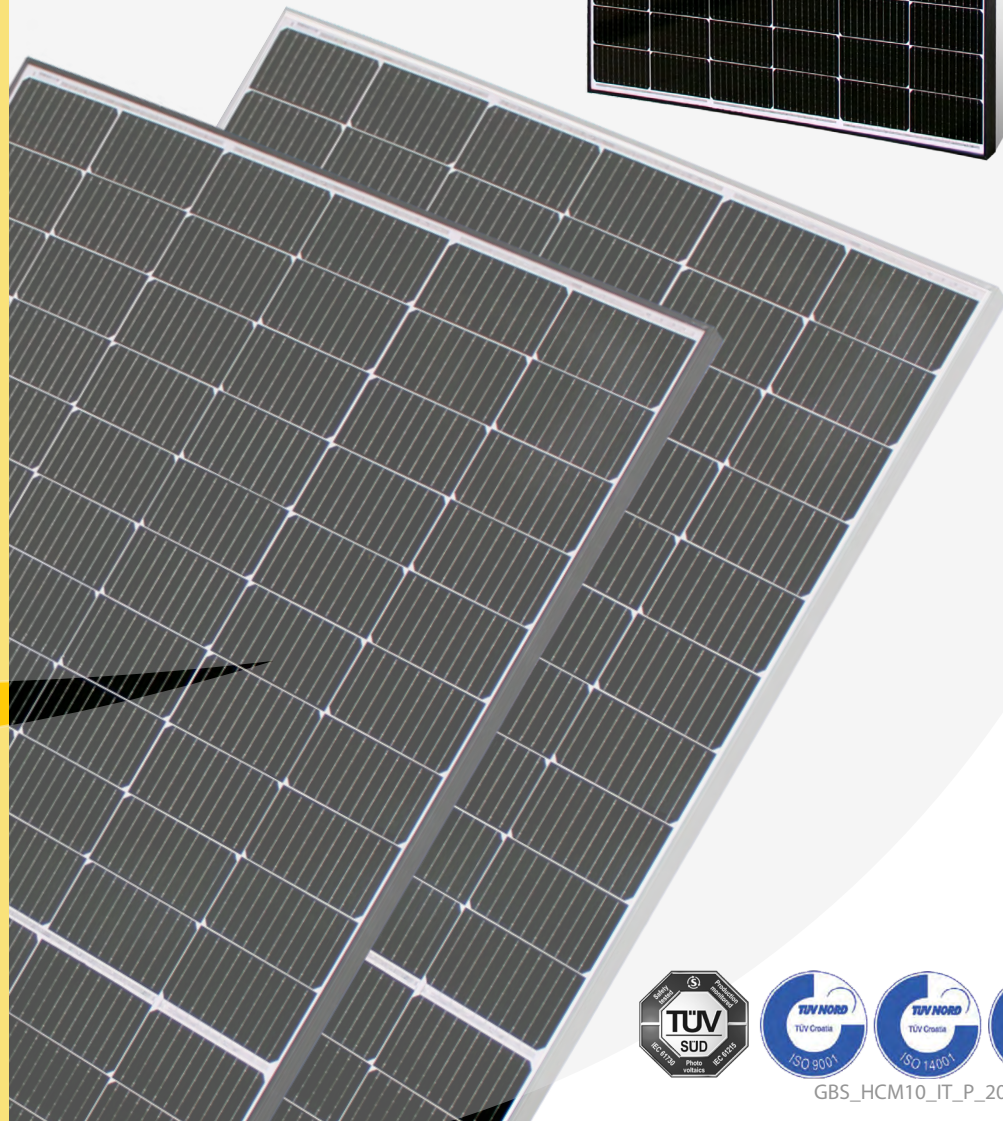
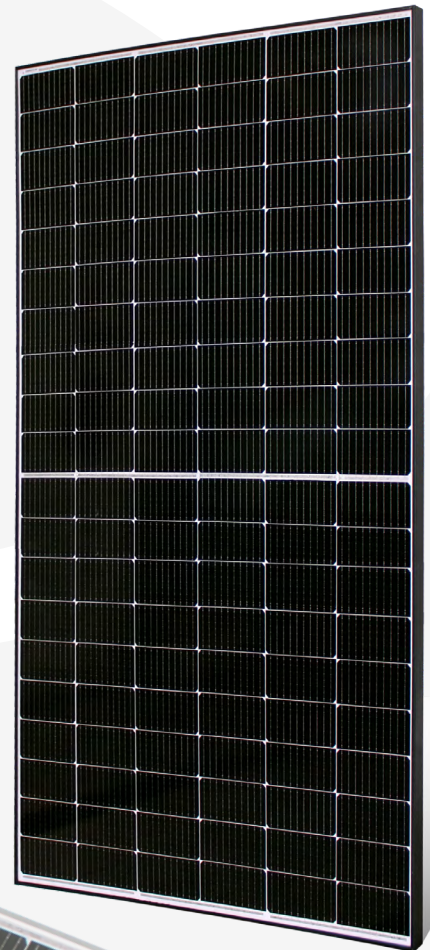




# MODEL SV120 E F HCM10

*TOPCon technology*



Premium quality



Power output  
range 470-480 Wp



100% EL testing



Mechanical load  
up to 2400 Pa



Low weight



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:

20

years manufacturing defects

30

years limited,  
86% output power



Electrical parameters at Standard Test Conditions (STC)				
MODEL		SV120-470 E F HCM10	SV120-475 E F HCM10	SV120-480 E F 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

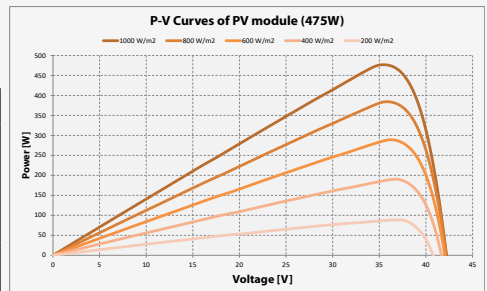
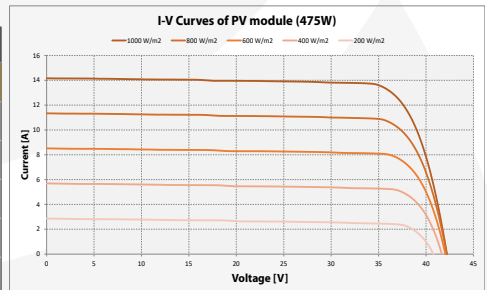
STC: 1000W/m<sup>2</sup> irradiance, 25 °C cell temperature, AM1, 5 g spectrum according to EN 60904-3. Machine measurement tolerance: +/-3%. Machine measurement rating: AAA. Primary electrical value for product type rating is  $P_{MPP}$ . I and V values can vary up to +/- 10% for the same  $P_{MPP}$  rating. Average relative efficiency reduction of 3,4 % at 200 W/m<sup>2</sup> according to EN 60904-1

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: 2400
		Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS		
Temperature coefficient of $P_{MPP}$	[%/K]	-0,322
Temperature coefficient of $I_{SC}$	[%/K]	0,033
Temperature coefficient of $V_{OC}$	[%/K]	-0,22

Electrical parameters at Nominal Module Operating Temperature (NMOT)				
MODEL		SV120-470 E F HCM10	SV120-475 E F HCM10	SV120-480 E F 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/m<sup>2</sup> irradiance, 20 °C ambient temperature, 1 m/s wind speed



MECHANICAL DATA	
Dimensions (H x W x D)	[mm] 1909x1134x35
Weight	[kg] 22,3
Solar cells	TOPCon, 120 cells, mono-Si, 182x91 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 <sup>2</sup> , length 1100 mm, MC4 compatible connectors

PACKAGING		
Quantity/Pallet	pcs	31
Truck	pcs	806
Pallets	pcs	26

NOTE: For extended models, SV120E (YYY) HCM10, there is optional YYY suffix that can be F for black frame and white backsheet and without YYY suffix for silver frame and white backsheet

