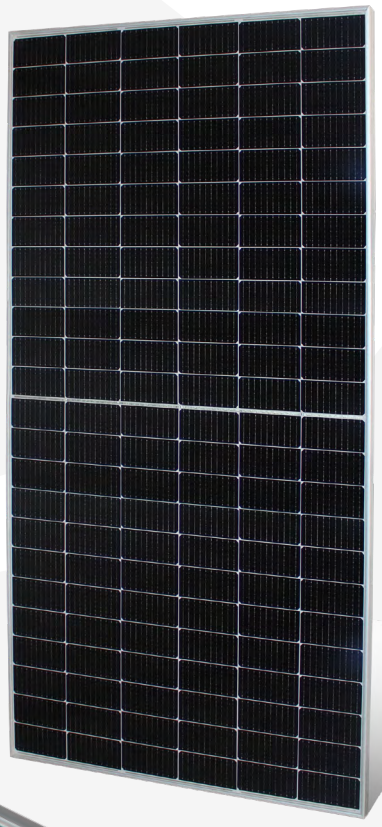
MADE IN EUROPE

SOLVIS
PHOTOVOLTAIC MODULES

MODEL SV144 E GG22 HCM10

TOPCon technology
Bifacial



- Premium quality
- Power output range 570-580 Wp
- 100% EL testing
- Mechanical load up to 2400 Pa
- Module efficiency up to 22,45%
- Positive power sorting -0/+4,9 W
- IEC EN 61215-1,-1-1,-2
  IEC EN 61730-1, -2

Warranty:

- 25 years manufacturing defects
- 30 years limited, 87,4% output power

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Electrical parameters at Standard Test Conditions (STC)				
MODEL		SV144-570 E GG22 HCM10	SV144-575 E GG22 HCM10	SV144-580 E GG22 HCM10
Peak power P_{MPP}	[W]	570	575	580
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	14,38	14,44	14,50
Open circuit voltage V_{OC}	[V]	50,75	50,90	51,04
Rated current I_{MPP}	[A]	13,59	13,65	13,71
Rated voltage V_{MPP}	[V]	41,97	42,15	42,33
Module efficiency	[%]	22,07	22,26	22,45
Cell efficiency	[%]	>24,7	>24,9	>25,1

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 Pmpp. I and V values can vary up to +/- 10% for the same Pmpp 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		SV144-570 E GG22 HCM10	SV144-575 E GG22 HCM10	SV144-580 E GG22 HCM10
Peak power P_{MPP}	[W]	431,6	435,4	439,2
Short circuit current I_{SC}	[A]	11,62	11,67	11,71
Open circuit voltage V_{OC}	[V]	48,2	48,4	48,5
Rated current I_{MPP}	[A]	10,82	10,86	10,92
Rated voltage V_{MPP}	[V]	39,9	40,1	40,2

NMOT: module operating parameters at 800 W/m² irradiance, 20 °C ambient temperature, 1 m/s wind speed

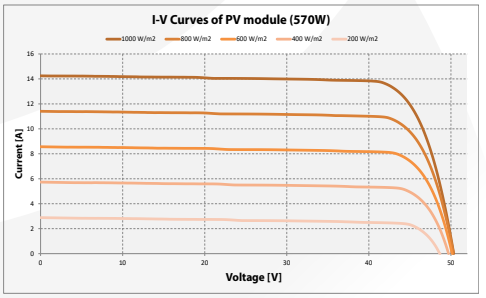
Electrical parameters at Bifacial Name Plate Irradiance (BNPI)				
MODEL		SV144-570 E GG22 HCM10	SV144-575 E GG22 HCM10	SV144-580 E GG22 HCM10
Peak power P_{MPP}	[W]	627	633	638
Short circuit current I_{SC}	[A]	15,93	16,00	16,07
Open circuit voltage V_{OC}	[V]	50,75	50,90	51,04
Rated current I_{MPP}	[A]	14,94	15,02	15,07
Rated voltage V_{MPP}	[V]	41,97	42,15	42,33

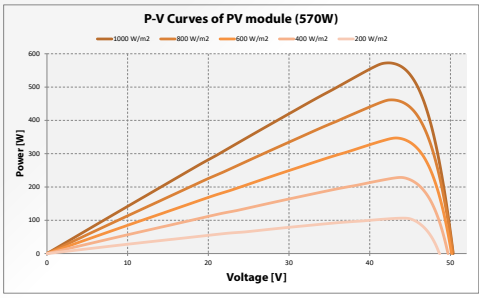
BNPI: 1000 W/m² irradiance on module front side and 135 W/m² irradiance on module rear side

MECHANICAL DATA		
Dimensions (H x W x D)	[mm]	2278 x 1134 x 35
Weight	[kg]	30,0
Solar cells		TOPCon, 144 cells, mono-Si, 182x91 mm +/- 1 mm
Front		AR Coated, Tempered solar glass, 2,0 mm
Back		semi-tempered glass 2,0 mm
Frame		Anodized aluminum frame with twin-wall profile and drainage holes
Junction box		IP68 with 3 Bypass diodes
Cable and connectors		Solar cable 4 mm², length 1400 mm, MC4 compatible connectors

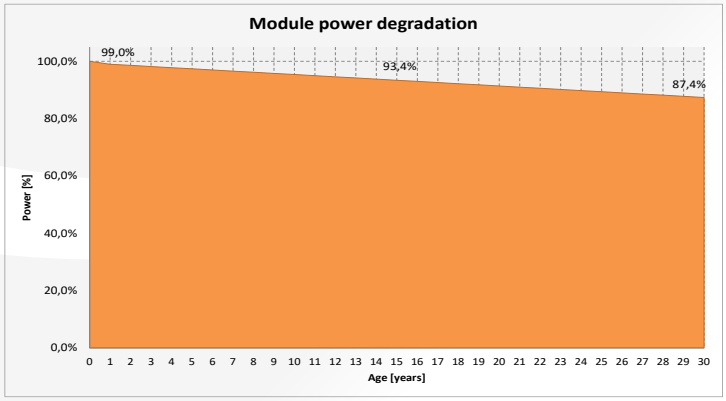
OPERATING CONDITIONS		
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating	[A]	30
Limiting reverse current	[A]	25
Maximum surface load capacity	[Pa]	Down: 2400
		Up: 2400
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

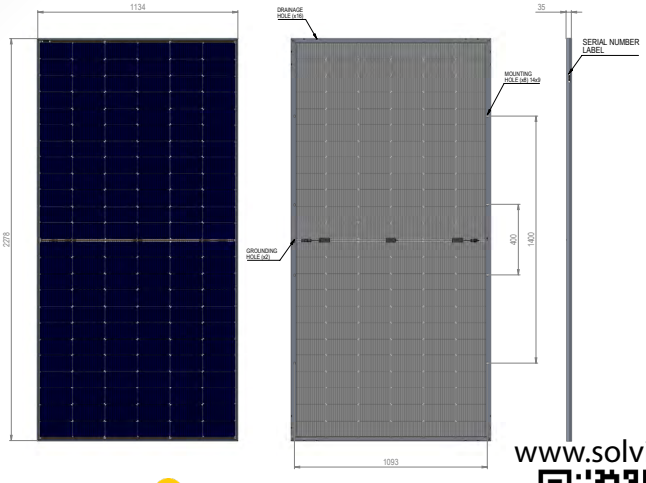
THERMAL CHARACTERISTICS		
Temperature coefficient of P_{MPP}	[%/K]	-0,289
Temperature coefficient of I_{SC}	[%/K]	0,045
Temperature coefficient of V_{OC}	[%/K]	-0,244





PACKAGING		
Quantity/Pallet	pcs	31
Truck	pcs	682
Pallets	pcs	22





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