



MODEL SV108 E F HCM10

TOPCon technology

440 W

Maximum power output

-0/+4,9 W

Positive power sorting

22,53%

Maximum Efficiency



Premium quality



100% EL testing



Power output range
430-440 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 22,53%



Made in Europe



Transizione 5.0



Made-in-Europe-Bonus

Warranty:

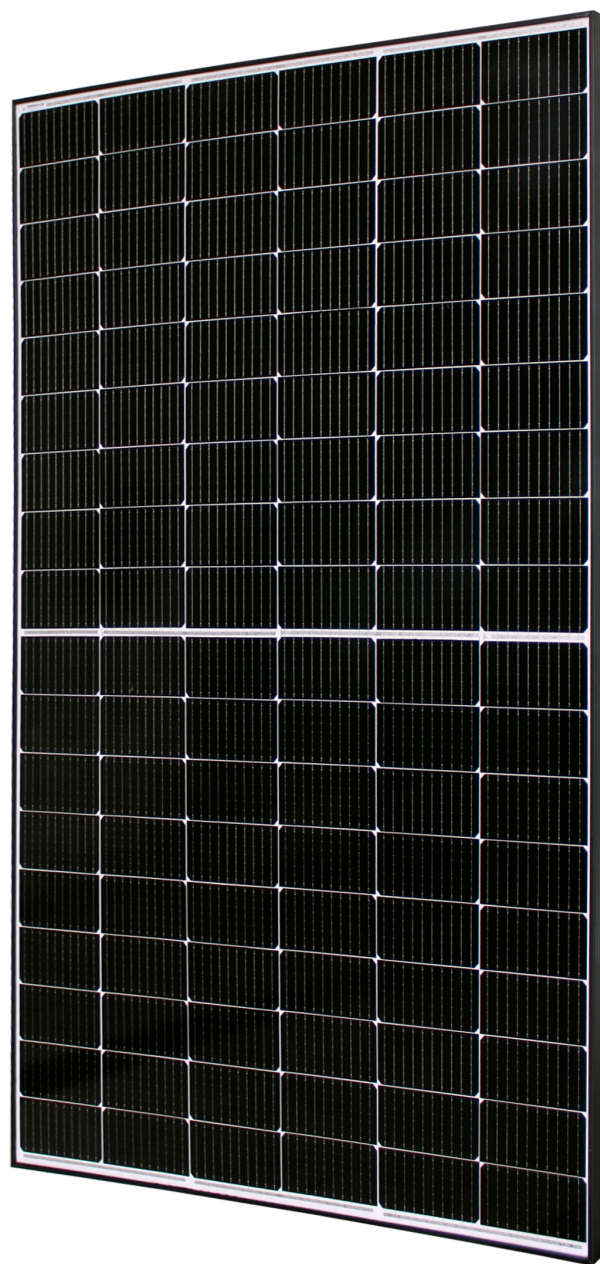
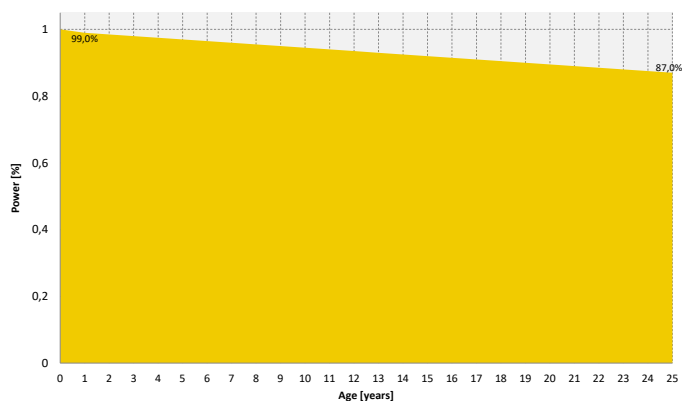


years manufacturing
defects



years limited,
87% output power

Module power degradation:



Electrical parameters at Standard Test Conditions (STC)

MODEL		SV108-430 E F HCM10	SV108-435 E F HCM10	SV108-440 E F HCM10
Peak power P_{MPP}	[W]	430	435	440
Peak power sorting	[W]	-0/+4,9		
Short circuit current I_{SC}	[A]	14,31	14,39	14,47
Open circuit voltage V_{OC}	[V]	38,25	38,37	38,49
Rated current I_{MPP}	[A]	13,56	13,64	13,72
Rated voltage V_{MPP}	[V]	31,73	31,90	32,08
Module efficiency	[%]	22,02	22,28	22,53
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		SV108-430 E F HCM10	SV108-435 E F HCM10	SV108-440 E F HCM10
Peak power P_{MPP}	[W]	325,6	329,4	333,2
Short circuit current I_{SC}	[A]	11,56	11,63	11,69
Open circuit voltage V_{OC}	[V]	36,3	36,4	36,6
Rated current I_{MPP}	[A]	10,78	10,87	10,92
Rated voltage V_{MPP}	[V]	30,2	30,3	30,5

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

MECHANICAL DATA

Dimensions (H x W x D)	[mm]	1722 x 1134 x 30
Weight	[kg]	20,2
Solar cells		TOPCon, 108 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 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]	25
Limiting reverse current	[A]	20
Maximum surface load capacity	[Pa]	Down: 5400* Up: 2400
Resistance against hail		Max. diameter of 35 mm with impact speed 27,2 m/s

*Please refer to installation manual

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

PACKAGING:

Quantity/Pallet	pcs	36
Truck	pcs	1008
Pallets	pcs	28

