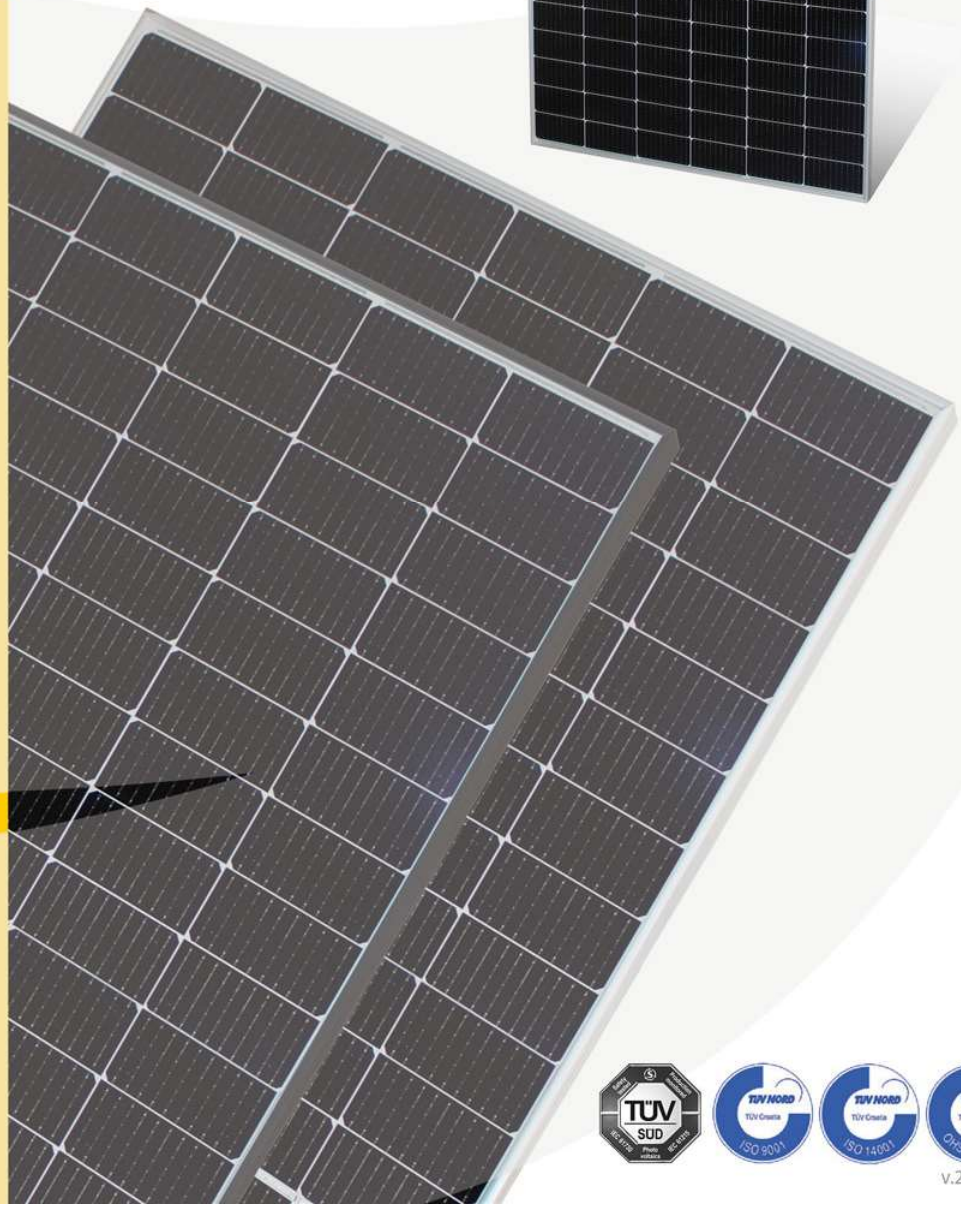
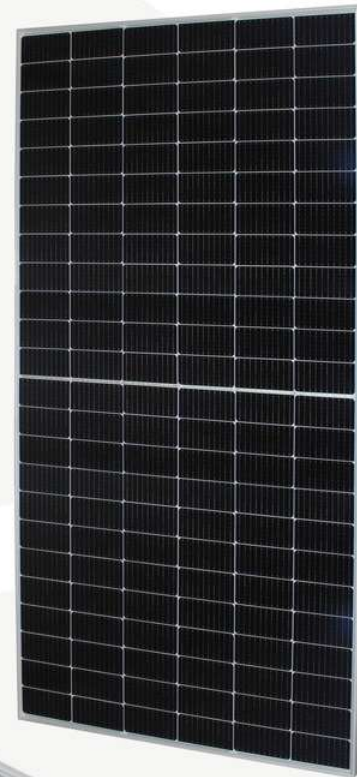


MODEL SV144 E HCM10



Premium quality



Power output
range 565-580 Wp



100% EL testing



Mechanical load
up to 5400 Pa



Low weight



Module efficiency
up to 22,45%



Positive power
tolerance -0/+5 W



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

Warranty:

10

years manufacturing defects

12

years limited,
90% output power

25

years limited,
80% output power



Electrical parameters at Standard Test Conditions (STC)					
MODEL		SV144-565 E HCM10	SV144-570 E HCM10	SV144-575 E HCM10	SV144-580 E HCM10
Peak power P_{MPP}	[W]	565	570	575	580
Peak power tolerance	[W]	-0/+5			
Short circuit current I_{SC}	[A]	14,32	14,38	14,44	14,50
Open circuit voltage V_{OC}	[V]	50,60	50,75	50,90	51,04
Rated current I_{MPP}	[A]	13,53	13,59	13,65	13,71
Rated voltage V_{MPP}	[V]	41,78	41,97	42,15	42,33
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	21,87	22,07	22,26	22,45%

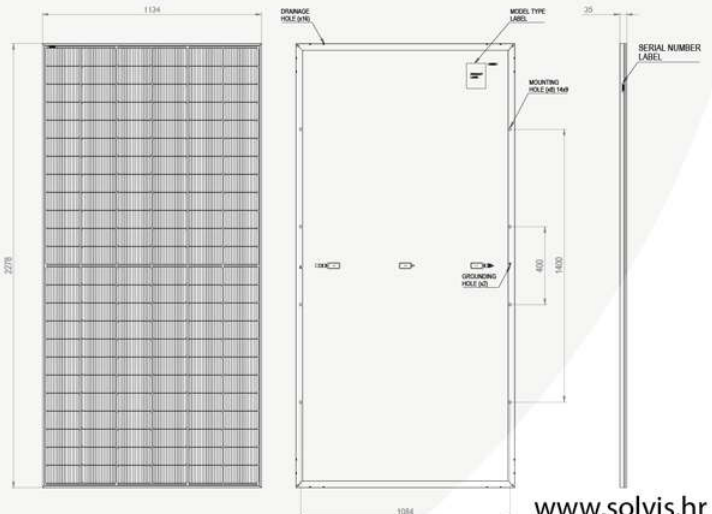
STC: 1000W/m² irradiance, 25 °C cell temperature, AM1, 5 g spectrum according to EN 60904-3
Average relative efficiency reduction of 3,4 % at 200 W/m² according to EN 60904-1

Electrical parameters at Nominal Module Operating Temperature (NMOT)					
MODEL		SV144-565 E HCM10	SV144-570 E HCM10	SV144-575 E HCM10	SV144-580 E HCM10
Peak power P_{MPP}	[W]	427,8	431,6	435,4	439,2
Peak power tolerance	[W]	-0/+5			
Short circuit current I_{SC}	[A]	11,57	11,62	11,67	11,71
Open circuit voltage V_{OC}	[V]	48,1	48,2	48,4	48,5
Rated current I_{MPP}	[A]	10,78	10,82	10,86	10,92
Rated voltage V_{MPP}	[V]	39,7	39,9	40,1	40,2

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] 2278 x 1134 x 35
Weight	[kg] 27,0
Solar cells	144 cells, mono-Si, 182x91 mm +/- 1 mm
Cells encapsulation	POE (Polyolefin Elastomer) / Ethylene vinyl acetate (EVA)
Front	Tempered solar glass, 3,2 mm
Back	Composite polyester Film
Frame	Anodized aluminium frame with twin-wall profile and drainage holes
Junction box	min. IP68 with 3 Bypass diodes
Cable and connectors	Solar cable 4 mm ² , length 1400 mm, MC4 compatible connectors

NOTE: For extended models, SV144 E (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.



OPERATING CONDITIONS		
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating		25A
Limiting reverse current		20A
Maximum surface load capacity		5400 Pa (Snow load)
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

THERMAL CHARACTERISTICS		
Temperature coefficient of P_{MPP}	[%/K]	-0,316
Temperature coefficient of I_{SC}	[%/K]	0,045
Temperature coefficient of V_{OC}	[%/K]	-0,249

