

## MODEL SV108 E HCM10



Premium quality



Power output  
range 405-430 Wp



100% EL testing



Mechanical load  
up to 5400 Pa



Low weight



Module efficiency  
up to 22,02%



Positive power  
tolerance -0/+5 W



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



### Warranty:

**15** years manufacturing defects

**12** years limited,  
90% output power

**25** years limited,  
80% output power



Electrical parameters at Standard Test Conditions (STC)							
MODEL		SV108-405 E HCM10	SV108-410 E HCM10	SV108-415 E HCM10	SV108-420 E HCM10	SV108-425 E HCM10	SV108-430 E HCM10
Peak power $P_{MPP}$	[W]	405	410	415	420	425	430
Peak power tolerance	[W]	-0/+5					
Short circuit current $I_{SC}$	[A]	13,91	13,99	14,07	14,15	14,23	14,31
Open circuit voltage $V_{OC}$	[V]	37,32	37,51	37,70	37,89	38,07	38,25
Rated current $I_{MPP}$	[A]	13,16	13,24	13,32	13,40	13,48	13,56
Rated voltage $V_{MPP}$	[V]	30,79	30,99	31,18	31,36	31,55	31,73
Current and voltage tolerance	[%]	± 3					
Module efficiency	[%]	20,74	21,00	21,25	21,51	21,76	22,02

STC: 1000W/m<sup>2</sup> irradiance, 25 °C cell temperature, AM1, 5 g spectrum according to EN 60904-3  
Average relative efficiency reduction of 3,4 % at 200 W/m<sup>2</sup> according to EN 60904-1

Electrical parameters at Nominal Module Operating Temperature (NMOT)							
MODEL		SV108-405 E HCM10	SV108-410 E HCM10	SV108-415 E HCM10	SV108-420 E HCM10	SV108-425 E HCM10	SV108-430 E HCM10
Peak power $P_{MPP}$	[W]	306,7	310,4	314,2	318,0	321,8	325,6
Peak power tolerance	[W]	-0/+5					
Short circuit current $I_{SC}$	[A]	11,24	11,30	11,37	11,43	11,85	11,56
Open circuit voltage $V_{OC}$	[V]	35,50	35,60	35,80	36,00	36,20	36,30
Rated current $I_{MPP}$	[A]	10,47	10,52	10,62	10,67	10,73	10,78
Rated voltage $V_{MPP}$	[V]	29,30	29,50	29,60	29,80	30,00	30,20

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] 1722 x 1134 x 30
Weight	[kg] 20,2
Solar cells	108 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 <sup>2</sup> , length 1100 mm, MC4 compatible connectors

NOTE: For extended models, SV108 E HCM10, voltages and currents can vary where YYY is optional based on the chosen YYY variant (YYY = letter(s), F for black frame, B for silver frame and black backsheet, BC for full black module)

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]	-0,35
Temperature coefficient of $I_{SC}$	[%/K]	0,05
Temperature coefficient of $V_{OC}$	[%/K]	-0,275

