

MODEL SV108 E HCM10 P



Premium quality



Power output
range 395-415 Wp



100% EL testing



Mechanical load
up to 5400 Pa



Low weight



Module efficiency
up to 21,25%



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		SV108-395 E HCM10 P	SV108-400 E HCM10 P	SV108-405 E HCM10 P	SV108-410 E HCM10 P	SV108-415 E HCM10 P
Peak power P_{MPP}	[W]	395	400	405	410	415
Peak power tolerance	[W]	-0/+5				
Short circuit current I_{SC}	[A]	13,55	13,61	13,67	13,73	13,79
Open circuit voltage V_{OC}	[V]	36,75	37,00	37,23	37,47	37,71
Rated current I_{MPP}	[A]	12,80	12,86	12,92	12,98	13,04
Rated voltage V_{MPP}	[V]	30,88	31,13	31,37	31,61	31,85
Current and voltage tolerance	[%]	± 3				
Module efficiency	[%]	20,23	20,48	20,74	21,00	21,25

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		SV108-395 E HCM10 P	SV108-400 E HCM10 P	SV108-405 E HCM10 P	SV108-410 E HCM10 P	SV108-415 E HCM10 P
Peak power P_{MPP}	[W]	299,1	302,9	306,7	310,4	314,2
Peak power tolerance	[W]	-0/+5				
Short circuit current I_{SC}	[A]	10,95	11,00	11,04	11,09	11,14
Open circuit voltage V_{OC}	[V]	34,9	35,1	35,4	35,6	35,8
Rated current I_{MPP}	[A]	10,21	10,23	10,29	10,35	10,37
Rated voltage V_{MPP}	[V]	29,3	29,6	29,8	30,0	30,3

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	108 cells, mono-Si, 182x91 mm +/- 1 mm
Cells encapsulation	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. IP67 with 3 Bypass diodes,
Cable and connectors	Solar cable 4 mm ² , length 1100 mm, MC4 compatible connectors

For extended models, SV108 E (YYY) HCM10 P, 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]	-0,35
Temperature coefficient of I_{SC}	[%/K]	0,05
Temperature coefficient of V_{OC}	[%/K]	-0,275

