





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%



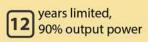
Positive power tolerance -0/+5 W



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

Warranty:





years limited, 25 80% output power





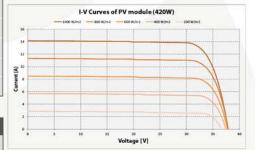
MODEL		SV108-405 E HCM10	SV108-410 E HCM10	SV108-415 E HCM10	SV108-420 E HCM10	SV108-425 E HCM10	SV108-430 E HCM10
Peak power P _{MPP}	[W]	405	410	415	420	425	430
Peak power tolerance	[W]		-0/+5				
Short circuit current I _{sc}	[A]	13,91	13,99	14,07	14,15	14,23	14,31
Open circuit voltage V _{oc}	[V]	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

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			

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/m ² according to EN 60904-1

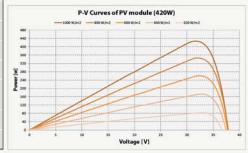
THERMAL CHARACTERISTICS		
Temperature coefficient of P _{MPP}	[%/K]	-0,35
Temperature coeffcient of I _{sc}	[%/K]	0,05
Temperature coeffcient of V_{∞}	[%/K]	-0,275

Electrical parameters at N							
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

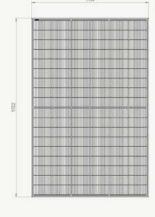


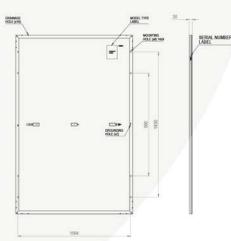
NMOT: module operating parameters at 800 W/m² irradiance, 20 °C ambient temperature, 1 m/s wind speed

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		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 mm², length 1100 mm, MC4 compatible connectors		











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