

## MODEL SV144 E HCM10 P



Premium quality



Power output  
range 530-550 Wp



100% EL testing



Mechanical load  
up to 5400 Pa



Low weight



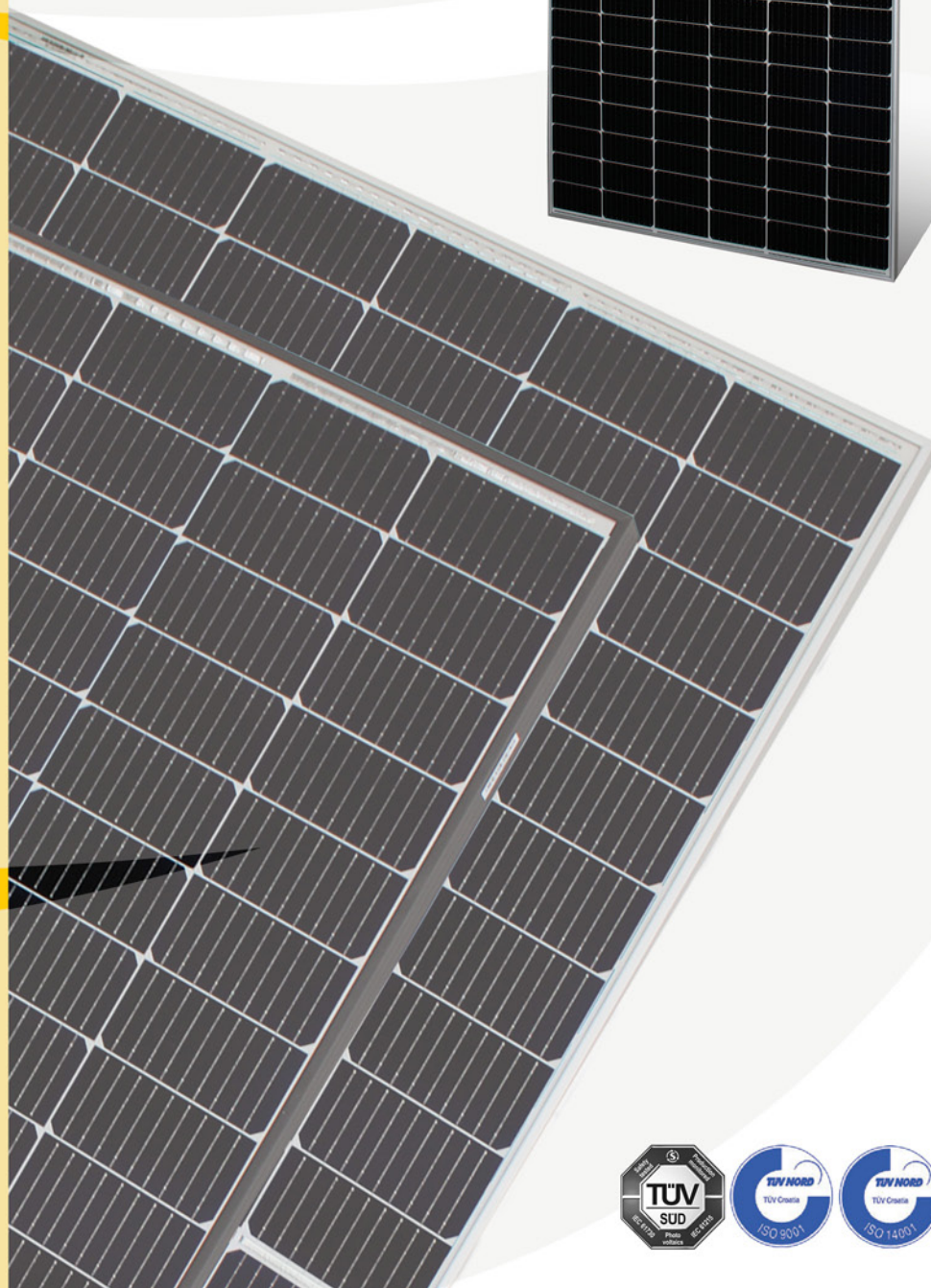
Module efficiency  
up to 21,29%



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		SV144-530 E HCM10 P	SV144-535 E HCM10 P	SV144-540 E HCM10 P	SV144-545 E HCM10 P	SV144-550 E HCM10 P
Peak power $P_{MPP}$	[W]	530	535	540	545	550
Peak power tolerance	[W]	-0/+5				
Short circuit current $I_{SC}$	[A]	13,57	13,62	13,67	13,72	13,77
Open circuit voltage $V_{OC}$	[V]	49,38	49,51	49,64	49,85	50,07
Rated current $I_{MPP}$	[A]	12,82	12,87	12,92	12,97	13,02
Rated voltage $V_{MPP}$	[V]	41,37	41,60	41,83	42,05	42,28
Current and voltage tolerance	[%]	± 3				
Module efficiency	[%]	20,52	20,71	20,90	21,10	21,29

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		SV144-530 E HCM10 P	SV144-535 E HCM10 P	SV144-540 E HCM10 P	SV144-545 E HCM10 P	SV144-550 E HCM10 P
Peak power $P_{MPP}$	[W]	401,3	405,1	408,9	412,7	416,5
Peak power tolerance	[W]	-0/+5				
Short circuit current $I_{SC}$	[A]	10,96	11,00	11,04	11,08	11,12
Open circuit voltage $V_{OC}$	[V]	46,9	47,0	47,2	47,4	47,6
Rated current $I_{MPP}$	[A]	10,21	10,26	10,27	10,32	10,36
Rated voltage $V_{MPP}$	[V]	39,3	39,5	39,8	40,0	40,2

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] 2278 x 1134 x 35
Weight	[kg] 27,0
Solar cells	144 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 <sup>2</sup> , length 1400 mm, MC4 compatible connectors

For extended models, SV144 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

