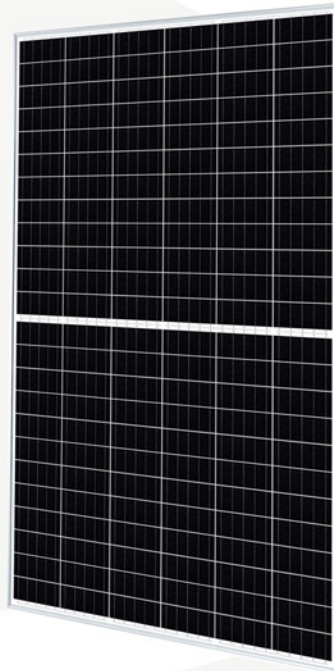






MODEL SV144 E HC





 Premium quality


 Power output
range 390-410 Wp


 100% EL testing

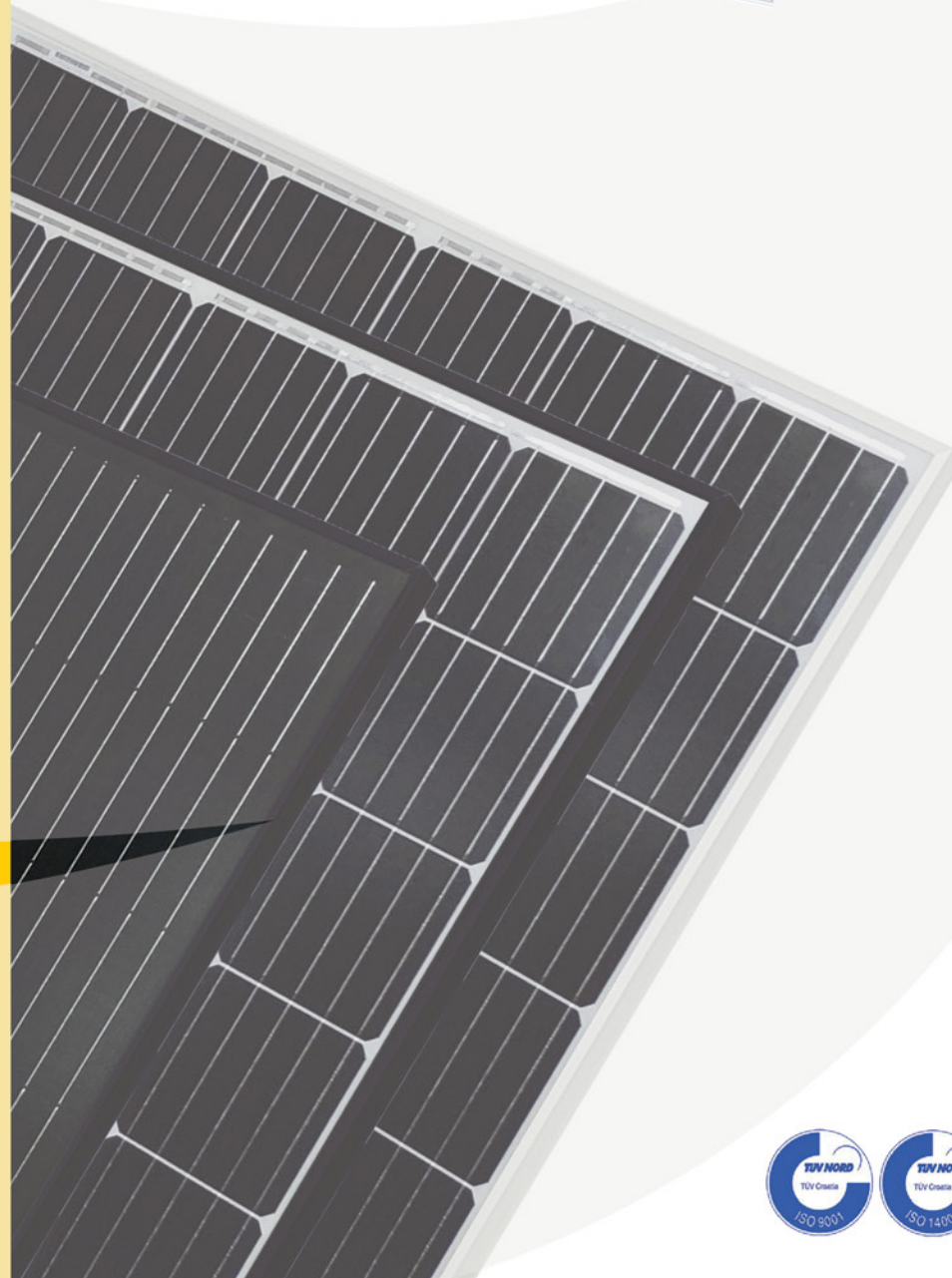
 Mechanical load
up to 5400 Pa

 Low weight

 Module efficiency
up to 20,42 %

 Positive power
tolerance -0/+5 W

 IEC EN 61215
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		SV144-390 E HC	SV144-395 E HC	SV144-400 E HC	SV144-405 E HC	SV144-410 E HC
Peak power P_{MPP}	[W]	390	395	400	405	410
Peak power tolerance	[W]	-0/+5				
Short circuit current I_{SC}	[A]	10,21	10,24	10,25	10,29	10,32
Open circuit voltage V_{OC}	[V]	48,53	48,67	48,96	49,18	49,32
Rated current I_{MPP}	[A]	9,67	9,71	9,73	9,78	9,84
Rated voltage V_{MPP}	[V]	40,51	40,71	41,21	41,52	41,76
Current and voltage tolerance	[%]	± 3				
Module efficiency	[%]	19,42	19,67	19,92	20,17	20,42

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

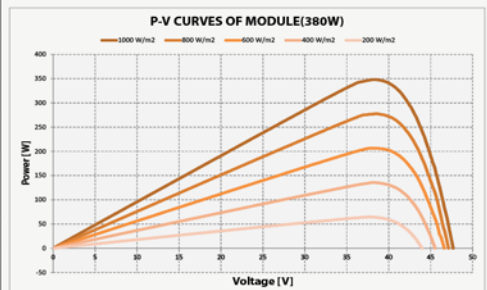
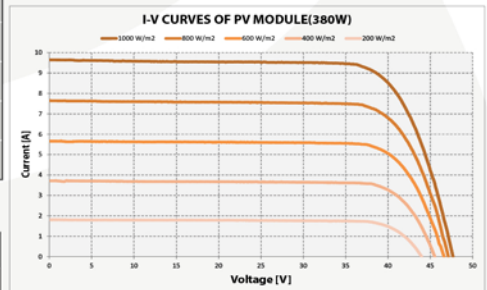
OPERATING CONDITIONS		
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1000
Max. series fuse rating		15A
Limiting reverse current		15A
Maximum surface load capacity		5400 Pa (Snow load)
Resistance against hail		Max. diameter of 25 mm with impact speed 23 m/s

Electrical parameters at Nominal Operating Cell Temperature (NOCT)						
MODEL		SV144-390 E HC	SV144-395 E HC	SV144-400 E HC	SV144-405 E HC	SV144-410 E HC
Peak power P_{MPP}	[W]	285,0	287,7	291,8	295,5	299,0
Peak power tolerance	[W]	-0/+5				
Short circuit current I_{SC}	[A]	8,20	8,22	8,23	8,26	8,29
Open circuit voltage V_{OC}	[V]	44,6	44,8	45,0	45,2	45,4
Rated current I_{MPP}	[A]	7,75	7,77	7,78	7,82	7,87
Rated voltage V_{MPP}	[V]	36,8	37,0	37,5	37,8	38,0

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

THERMAL CHARACTERISTICS		
Temperature coefficient of P_{MPP}	[%/K]	-0,42
Temperature coefficient of I_{SC}	[%/K]	0,05
Temperature coefficient of V_{OC}	[%/K]	-0,33

MECHANICAL DATA	
Dimensions (H x W x D)	[mm] 2008 x 1002 x 40
Weight	[kg] 23,0
Solar cells	144 cells, mono-Si, 158x79 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	IP67 with 3 Bypass diodes
Cable and connectors	Solar cable 4 mm ² , length 1200 mm, PV connectors



NOTE: For extended models, SV144 E YYY, 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)

