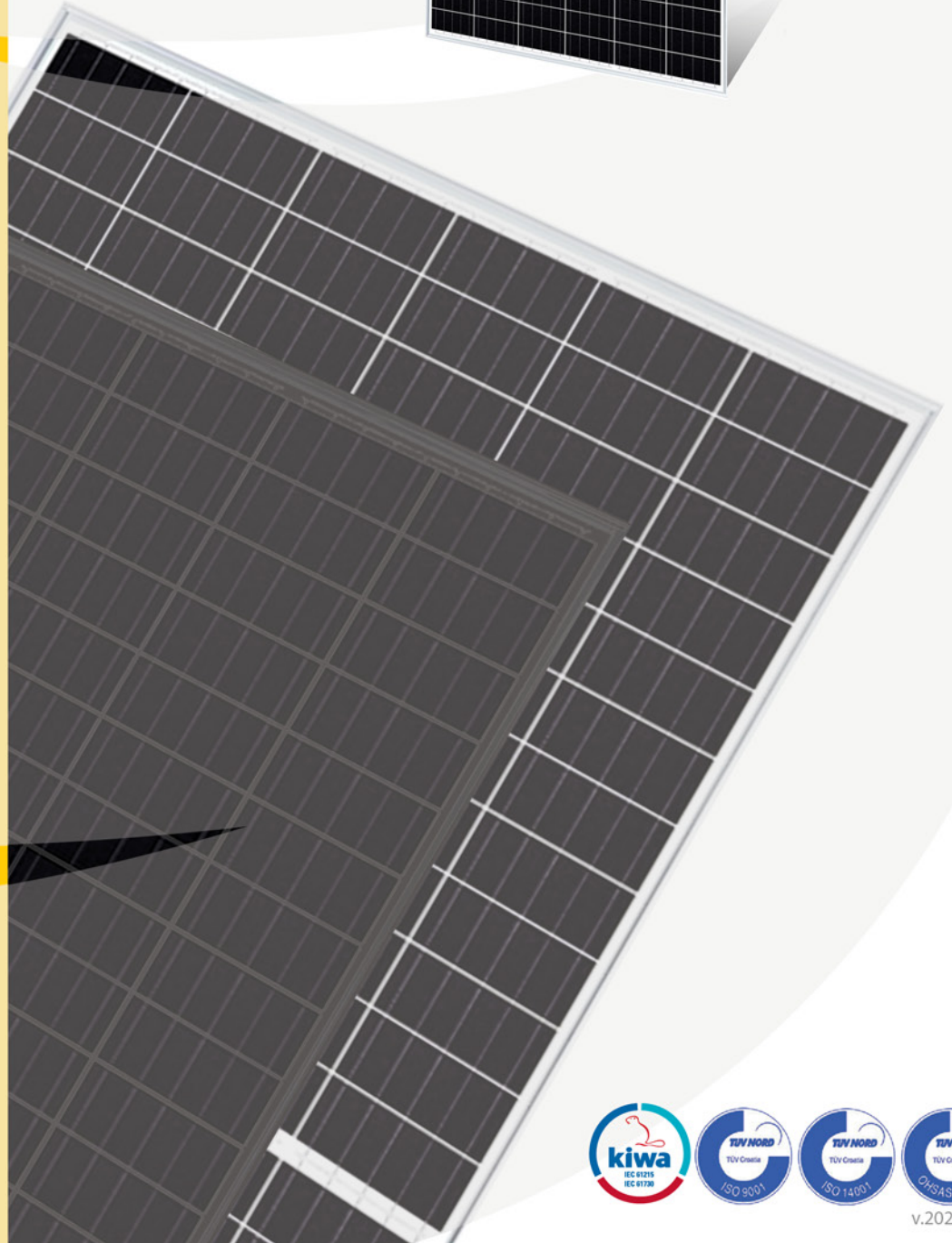
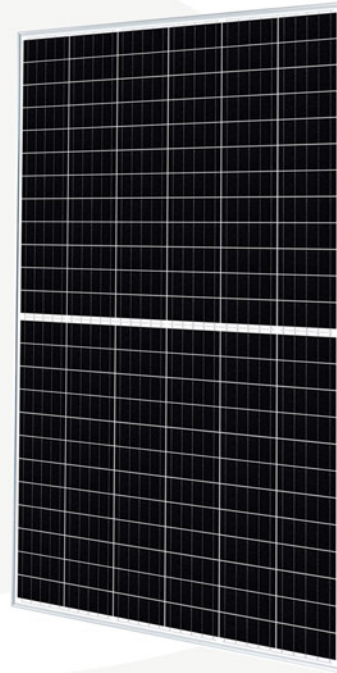












MODEL SV144 E HC



-  Premium quality
-  Power output range 395-415 Wp
-  100% EL testing
-  Mechanical load up to 2400 Pa
-  Low weight
-  Module efficiency up to 20,74 %
-  Positive power tolerance -0/+5 Wp
-  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		SV144-395 E HC	SV144-400 E HC	SV144-405 E HC	SV144-410 E HC	SV144-415 E HC
Peak power P_{MPP}	[W]	395	400	405	410	415
Peak power tolerance	[W]	-0/+5				
Short circuit current I_{SC}	[A]	10,09	10,12	10,14	10,27	10,29
Open circuit voltage V_{OC}	[V]	49,50	49,79	50,05	50,39	50,61
Rated current I_{MPP}	[A]	9,49	9,55	9,60	9,66	9,70
Rated voltage V_{MPP}	[V]	41,63	41,94	42,28	42,59	42,79
Current and voltage tolerance	[%]	± 3				
Module efficiency	[%]	19,74%	19,99%	20,24%	20,49%	20,74%

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 Operating Cell Temperature (NOCT)						
MODEL		SV144-395 E HC	SV144-400 E HC	SV144-405 E HC	SV144-410 E HC	SV144-415 E HC
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]	8,15	8,18	8,19	8,30	8,31
Open circuit voltage V_{OC}	[V]	47,0	47,3	47,5	47,9	48,1
Rated current I_{MPP}	[A]	7,55	7,59	7,63	7,67	7,72
Rated voltage V_{MPP}	[V]	39,6	39,9	40,2	40,5	40,7

NOCT: 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] 2001 x 1000x 35
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 HC 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)

OPERATING CONDITIONS		
Temperature range	[°C]	-40 to +85
Maximum system voltage	[V]	1500
Max. series fuse rating		15A
Limiting reverse current		15A
Maximum surface load capacity		2400 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]	-0,338
Temperature coefficient of I_{SC}	[%/K]	0,047
Temperature coefficient of V_{OC}	[%/K]	-0,268

