



MODEL SV36



Premium quality



Power output
range 150-165 Wp



100% EL testing



Mechanical load
up to 5400 Pa



Low weight



Module efficiency
up to 16,40 %



Positive power
tolerance -0/+4,9 W



Made in Europe



IEC EN 61215
IEC EN 61730-1, -2



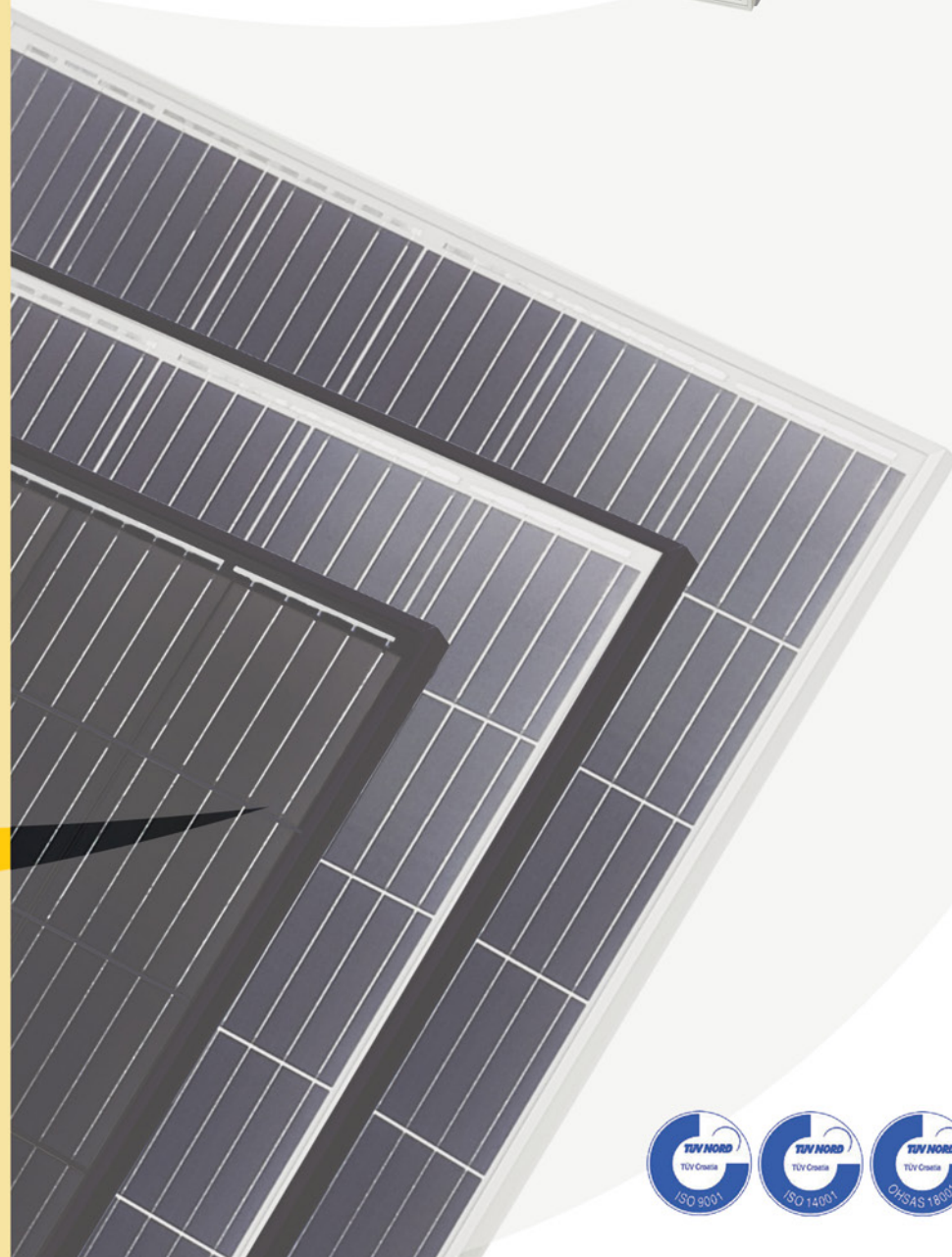
IEC EN 62716 Ed.1



IEC EN 61701



IEC TS 62804-1
(PID resistance)



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		SV36-150	SV36-155	SV36-160	SV36-165
Peak power P_{MPP}	[W]	150	155	160	165
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	8,61	8,63	8,76	8,87
Open circuit voltage V_{OC}	[V]	22,21	22,32	22,79	23,04
Rated current I_{MPP}	[A]	8,22	8,28	8,38	8,50
Rated voltage V_{MPP}	[V]	18,79	18,87	19,20	19,43
Current and voltage tolerance	[%]	± 3			
Module efficiency	[%]	14,91	15,41	15,91	16,40

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		SV36-150	SV36-155	SV36-160	SV36-165
Peak power P_{MPP}	[W]	111,5	112,7	116,6	119,2
Peak power tolerance	[W]	-0/+4,9			
Short circuit current I_{SC}	[A]	6,96	6,98	7,08	7,17
Open circuit voltage V_{OC}	[V]	20,2	20,3	20,8	21,0
Rated current I_{MPP}	[A]	6,63	6,71	6,79	6,89
Rated voltage V_{MPP}	[V]	16,8	16,8	17,1	17,3

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] 1014 x 992 x 35
Weight	[kg] 14,0
Solar cells	36 cells, polycrystalline Si, 156 x 156 mm +/- 1mm
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

NOTE: For extended models, SV36 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]	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

THERMAL CHARACTERISTICS		
Temperature coefficient of P_{MPP}	[%/K]	-0,41
Temperature coefficient of I_{SC}	[%/K]	0,05
Temperature coefficient of V_{OC}	[%/K]	-0,31

