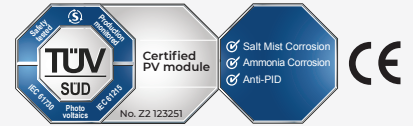


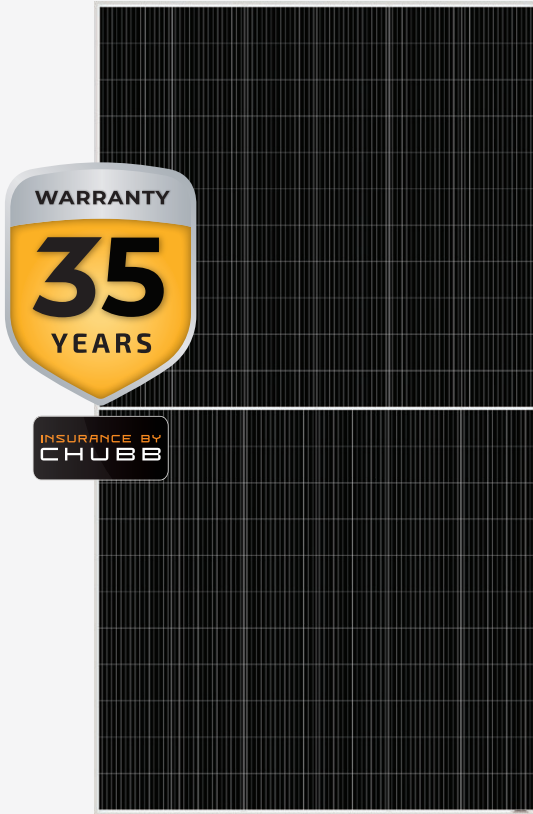
## TOPCON N-TYPE BI-FACIAL BF

132 CELLS    695-715 Wp    210.00 MM

MODULE CODE: SSPXXXS9-132NT



### TOPCON



**REVOLUTIONARY EFFICIENCY UP TO 23.02%**  
**HIEFFICIENCY** technology is a guarantee of the highest performance and power as well as lower BOS cost



**INNOVATIVE PHOTOVOLTAIC TOPCON CELLS**  
 TOPCON N-TYPE cells feature an additional, ultra-thin silicon layer and even higher efficiency

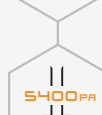


**BIFACIAL MEANS UP TO 30% MORE POWER**  
 BiFacial technology uses solar energy reflected from the surface, increasing the power from 10% to 30%



**EXCELLENT PERFORMANCE IN UNFAVORABLE WEATHER CONDITIONS**

Outstanding performance under low sunlight and extreme temperature conditions



**EXTREME DURABILITY**

Hurricane wind resistance (2400 Pa) and very high snow loads (5400 Pa)

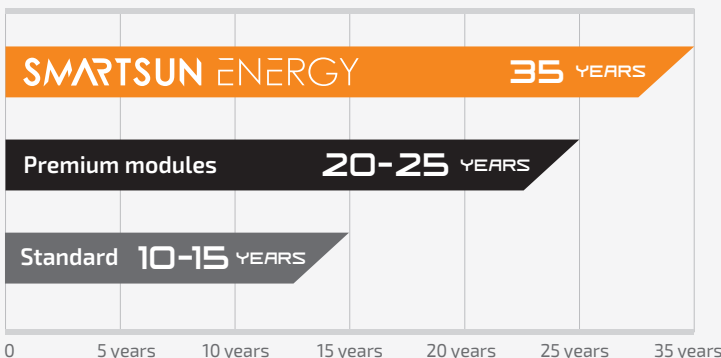


**TÜV SÜD CERTIFIED RESISTANCE**

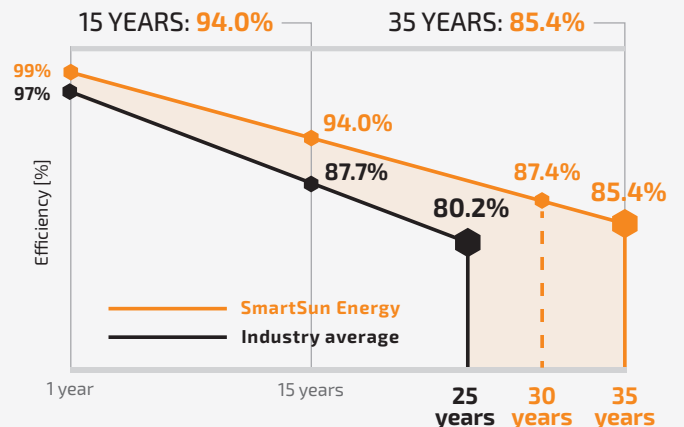
TÜV SÜD certificates confirming salt mist and ammonia resistance as well as PID

PRODUCT WARRANTY: **35 YEARS**

SMARTSUN ENERGY VS OTHER MODULES:



LINEAR POWER WARRANTY:



SMARTSUN ENERGY  
 WE MAKE IT GREEN

### PRODUCT SPECIFICATION (STC)

MODULE CODE: SSPxxxS9-132NT

	695 W	700 W	705 W	710 W	715 W
Maximum power	695 W	700 W	705 W	710 W	715 W
Maximum power voltage	42.00 V	42.20 V	42.40 V	42.60 V	42.80 V
Maximum power current	16.55 A	16.59 A	16.63 A	16.67 A	16.71 A
Open circuit voltage	50.00 V	50.20 V	50.40 V	50.60 V	50.80 V
Short circuit current	17.39 A	17.43 A	17.47 A	17.51 A	17.55 A
Module efficiency	22.37 %	22.53 %	22.70 %	22.86 %	23.02 %
Maximum system voltage	DC 1500 V (TÜV) / DC 1000 V (TÜV)				
Maximum series fuse rating	35 A				

Electrical parameters at standard test conditions (STC: AM=1.5; 1000 W/m<sup>2</sup>; Cells temperature: 25°C)

### PRODUCT SPECIFICATION (NMOT)

	522 W	526 W	530 W	534 W	538 W
Maximum power	522 W	526 W	530 W	534 W	538 W
Maximum power voltage	39.00 V	39.20 V	39.40 V	39.60 V	39.80 V
Maximum power current	13.39 A	13.42 A	13.46 A	13.49 A	13.52 A
Open circuit voltage	47.00 V	47.20 V	47.40 V	47.60 V	47.80 V
Short circuit current	14.09 A	14.12 A	14.15 A	14.18 A	14.21 A

Electrical parameters at standard test conditions (STC: AM=1.5; 800 W/m<sup>2</sup>; Cells temperature: 20°C, Wind speed: 1 m/s)

### REAR SIDE POWER GAIN (695 W)

	+10%	+15%	+20%	+25%	+30%
Power gain	+10%	+15%	+20%	+25%	+30%
Maximum power	765 W	799 W	834 W	869 W	904 W
Maximum power voltage	42.00 V	42.00 V	42.00 V	42.00 V	42.00 V
Maximum power current	18.22 A	19.03 A	19.86 A	20.70 A	21.53 A
Open circuit voltage	50.00 V	50.00 V	50.00 V	50.00 V	50.00 V
Short circuit current	19.14 A	19.99 A	20.86 A	21.74 A	22.62 A

### MECHANICAL DATA

Dimensions	2384 x 1303 x 35 mm
Weight	38.5 kg
Glass	Double glass; 2.0 mm tempered with AR Coating
Output cables	Length: 2 x 140 cm Section: 4 mm <sup>2</sup>
Connectors	MC4 compatible, IP68
Cell type	N-Type; Monocrystalline; Half-Cell (16 BB) 105.00 x 210.00 mm
Number of cells	132 cells
Frame corners	Mechanically clamped
Frame	Anodized aluminum
Bypass diodes	3 pcs.

### TEST, CERTIFICATIONS AND WARRANTIES

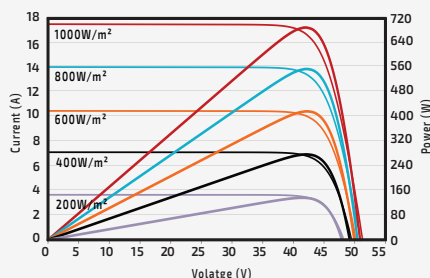
Standard tests	IEC 61215, IEC 61730, IEC 61701 IEC 62716, Utility class „A“ Protection class „II“, LID < 0.5% PPP 58042B
Fire resistance	Class C
System certs	ISO 9001, ISO 14001, ISO 45001
Certifications	TÜV SÜD, CE, WEEE
Extreme wind and snow loads testing	Wind: 2400 Pa Snow: 5400 Pa
Power tolerance	from 0 to +5W
Junction box	IP68
Warranties	35 years product warranty 35 years power warranty (85.4%)

### PACKING CONFIGURATION

Container	40'HQ	Pieces per pallet	31
Pallets per container	18	Pieces per container	558

### TEMPERATURE CHARACTERISTICS

$I_{SC}(T_K I_{SC})$	0.045 %/°C	$V_{OC}(T_K V_{OC})$	-0.25 %/°C
$P_{MPP}(T_K P_{MPP})$	-0.30 %/°C	NMOT	+43 ± 2°C
Operating temperature	from -40 to +85°C		



### DIMENSIONS AND STRUCTURE (MM)

