

# WRS-580-36 MH SF

TOPCon Technology

## POWER RANGE

550 W – 580 W

## CELL SIZE

182 x 91 mm

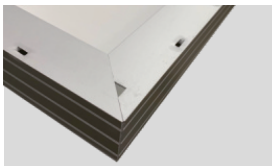


16BB



### JUNCTION BOX

Waterproof protection grade: IP68  
 Safety Level: Class II  
 Maximum System Voltage: 1500 V  
 Outstanding waterproof level  
 Effectively resist harsh environments



### FRAME

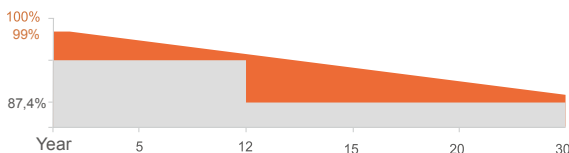
Strong mechanical load  
 Resistance up to 5400 Pa  
 Anodic oxidation layer resistant to chemical corrosion available

## QUALIFICATIONS AND CERTIFICATES



IEC 61215 / IEC 61730

## WARRANTY



**20 YEARS** Guarantee on product material and workmanship

**30 YEARS** Linear Power output warranty



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Enhanced Mechanical Load

Certified to withstand: wind load (2400 PA) and snow load (5400 PA).

# WRS-580-36 MH SF

## TOPCon Technology

### ELECTRICAL DATA (STC)

Model Type	WRS-550-36-MH SF	WRS-555-36-MH SF	WRS-560-36-MH SF	WRS-565-36-MH SF	WRS-570-36-MH SF	WRS-575-36-MH SF	WRS-580-36-MH SF
Peak Power (Pmax)	550.00 W	555.00 W	560.00 W	565.00 W	570.00 W	575.00 W	580.00 W
Maximum Power Voltage (Vmp)	41.50 V	41.64 V	41.77 V	41.92 V	42.07 V	42.22 V	42.37 V
Maximum Power Current (Imp)	13.26 A	13.33 A	13.41 A	13.48 A	13.55 A	13.62 A	13.69 A
Open Circuit Voltage (VOC)	50.21 V ± 3%	50.34 V ± 3%	50.47 V ± 3%	50.60 V ± 3%	50.74 V ± 3%	50.88 V ± 3%	51.02 V ± 3%
Short Circuit Current (ISC)	14.00 A ± 3%	14.07 A ± 3%	14.15 A ± 3%	14.23 A ± 3%	14.31 A ± 3%	14.39 A ± 3%	14.47 A ± 3%
Module Efficiency (%)	21.29 %	21.48 %	21.68 %	21.87 %	22.07 %	22.26 %	22.45 %

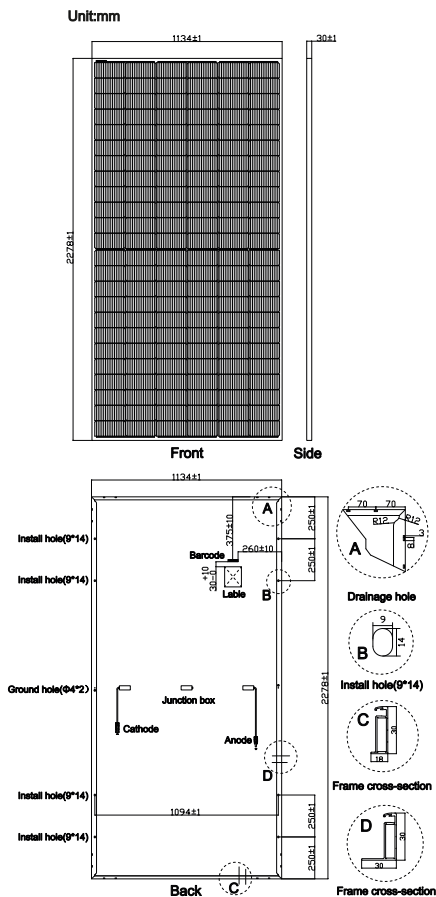
\* STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25 °C

### ELECTRICAL DATA (NMOT)

Model Type	WRS-550-36-MH SF	WRS-555-36-MH SF	WRS-560-36-MH SF	WRS-565-36-MH SF	WRS-570-36-MH SF	WRS-575-36-MH SF	WRS-580-36-MH SF
Peak Power (Pmax)	413.00 W	417.00 W	421.00 W	425.00 W	429.00 W	433.00 W	437.00 W
Maximum Power Voltage (Vmp)	38.99 V	39.12 V	39.25 V	39.38 V	39.51 V	39.64 V	39.77 V
Maximum Power Current (Imp)	10.61 A	10.67 A	10.73 A	10.79 A	10.85 A	10.91 A	10.97 A
Open Circuit Voltage (VOC)	47.70 V ± 3%	47.82 V ± 3%	47.94 V ± 3%	48.06 V ± 3%	48.20 V ± 3%	48.33 V ± 3%	48.46 V ± 3%
Short Circuit Current (ISC)	11.30 A ± 3%	11.36 A ± 3%	11.42 A ± 3%	11.49 A ± 3%	11.55 A ± 3%	11.62 A ± 3%	11.68 A ± 3%

\* NMOT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20 °C, wind speed 1 m/s

### PV DRAWINGS



### TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0 - +3 W
Pmax Temperature Coefficients (W/°C)	-0.300 W % /°C
VOC Temperature Coefficients (V/°C)	-0.250 V % /°C
ISC Temperature Coefficients (A/°C)	+0.046 A % /°C
NMOT Nominal Module Operating Temperature (°C)	45 ± 2 °C
Operating and Storage Temperature (°C)	-40 - +85 °C

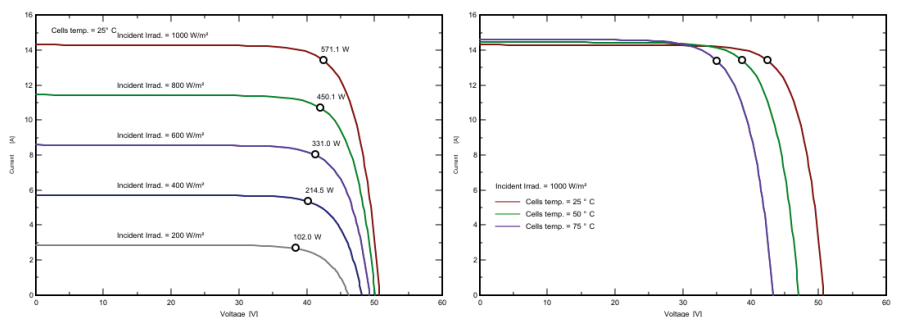
### MECHANICAL CHARACTERISTICS

Cell Type	182 x 91 N-Type Mono
No. of Cells	144 (12 x 12)
Dimension	2278 x 1134 x 30 mm
Weight	28.40 kg
Front Glass	3.2 mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 3 diodes
Output Cables	4 mm <sup>2</sup> cable 35 cm (including MC4 connector)
Maximum Wind Load / Snow Load	2400 Pa / 5400 Pa

### PACKING WAY

20" FT Container	5 Packages / 185 pcs
40" HQ Container	20 Packages / 740 pcs

### IV CURVE (620 W)



**WARIS ENERGY SRL**

Italy - Via di Vittorio 19, 38068 Rovereto (TN)

Germany - Im Speitel 9, 76229 Karlsruhe

E-Mail: [INFO@WARIS-ENERGY.COM](mailto:INFO@WARIS-ENERGY.COM)

Tel.: 0039-0464-973892