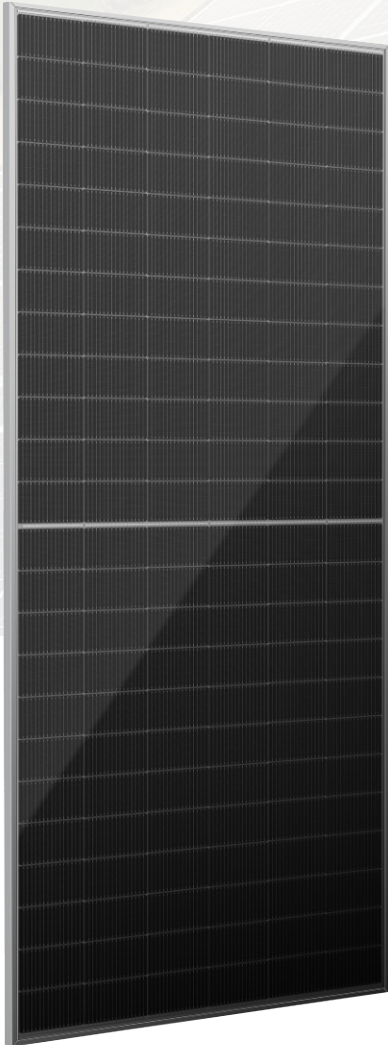


# N-type TOPCon

## HIGH PERFORMANCE BIFACIAL MODULE

ASM144-9-560-585BNDG



The module picture is for reference only

**560-585** <sub>Wp</sub>

Power Output Range

**22.6** %

Maximum Efficiency

**0~+3** %

Positive power tolerance

**1500** VDC

Maximum System Voltage

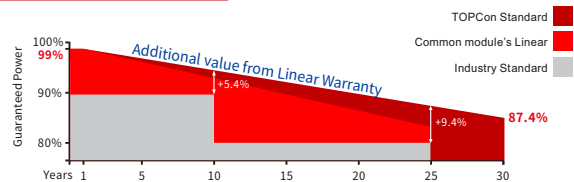
### KEY FEATURES

- Excellent power generation
- Excellent anti-LID & anti-PID performance
- Excellent temperature coefficient (Pmax): -0.29%/°C
- Excellent weak-light performance
- Excellent warranty assurance

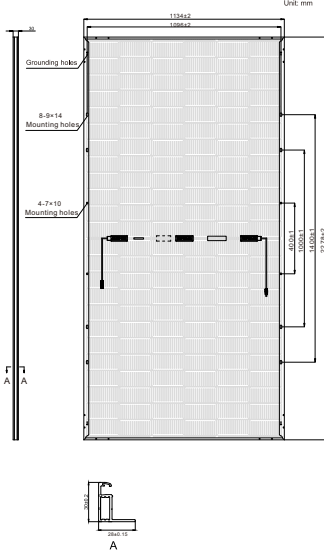
### LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years



### Dimensions of PV Module



### ELECTRICAL DATA (STC)

Model Type	ASM144-9-560-585BNDG					
Rated Power in Watts-Pmax(Wp)	<b>560</b>	<b>565</b>	<b>570</b>	<b>575</b>	<b>580</b>	<b>585</b>
Open Circuit Voltage-Voc(V)	51.37	51.57	51.77	51.97	52.17	52.37
Short Circuit Current-Isc(A)	13.89	13.95	14.01	14.06	14.12	14.18
Maximum Power Voltage-Vmpp(V)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current-Impp(A)	13.04	13.10	13.15	13.21	13.26	13.32
Module Efficiency (%) *	21.7	21.9	22.1	22.3	22.5	22.6

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
Bifacial factor: 80 ± 10(%) \* Module Efficiency (%): Rounding to the nearest number

### Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	616	622	627	633	638	644
Open Circuit Voltage-Voc(V)	51.37	51.57	51.77	51.97	52.17	52.37
Short Circuit Current-Isc(A)	15.27	15.34	15.41	15.47	15.53	15.60
Maximum Power Voltage-Vmpp(V)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current-Impp(A)	14.35	14.41	14.47	14.53	14.59	14.65

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

### ELECTRICAL DATA (NMOT)

Model Type	ASM144-9-560-585BNDG					
Maximum Power-Pmax (Wp)	424.7	428.6	432.3	436.1	439.8	443.6
Open Circuit Voltage-Voc (V)	47.77	47.96	48.15	48.33	48.52	48.70
Short Circuit Current-Isc (A)	11.39	11.44	11.48	11.53	11.58	11.63
Maximum Power Voltage-Vmpp (V)	39.90	40.09	40.28	40.46	40.65	40.83
Maximum Power Current-Impp (A)	10.64	10.69	10.73	10.78	10.82	10.87

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

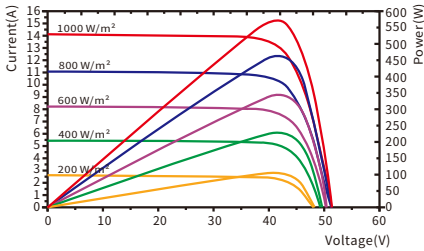
Solar cells	N-type TOPCon
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2278×1134×30mm
Weight	31kg
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm <sup>2</sup> , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Twinsel PV-SY02, IP68

### TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

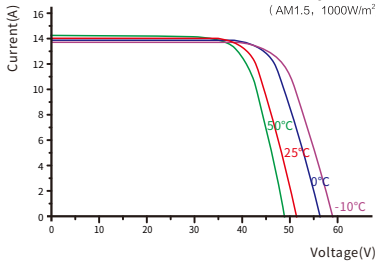
### ASM144-9-575BNDG

#### I-V characteristics at different irradiances



#### I-V characteristics at different temperatures

(AM1.5, 1000W/m<sup>2</sup>)



### PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	720	180
Number of modules per pallet	36	36
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2290×1110×1260	
Box gross weight[kg]	1170	