

**TOPCON BIFICIAL MODULE**

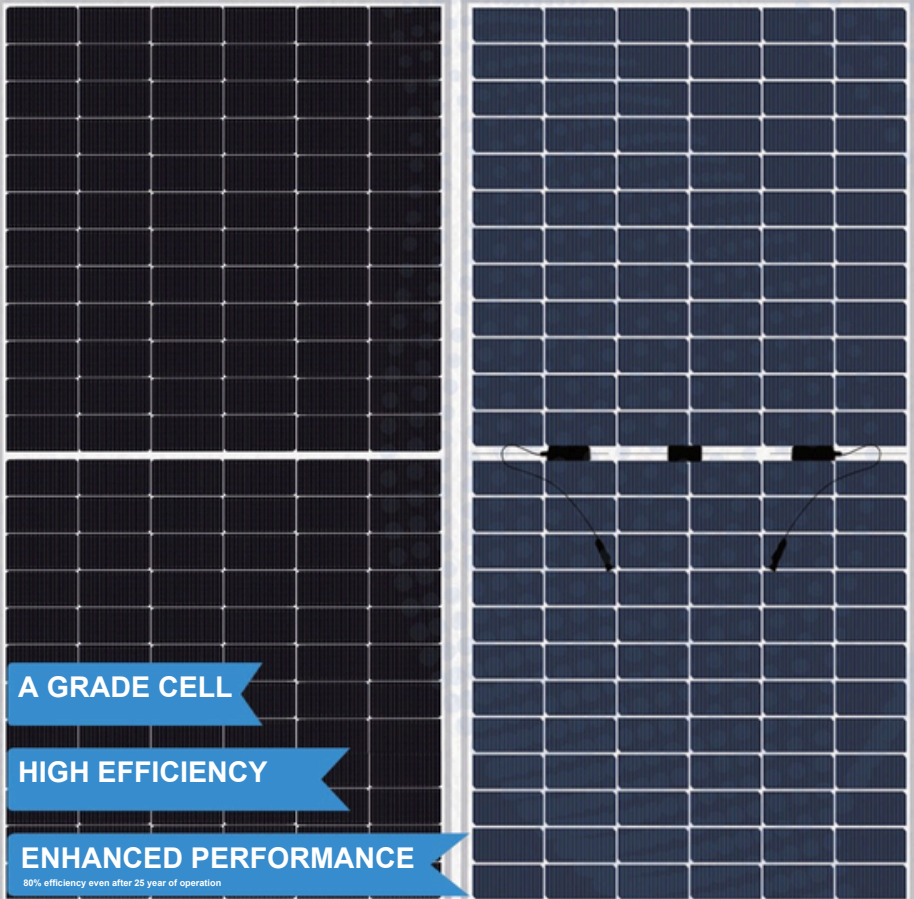
**600WP**

**600W**  
Power Output Range

**0/+2W**  
Positive Power Tolerance

**144 CELL**  
Topcon Half Cut Module

**upto 24.50%**  
Maximum Efficiency



**A GRADE CELL**

**HIGH EFFICIENCY**

**ENHANCED PERFORMANCE**

80% efficiency even after 25 year of operation

**WHY BLUTH SOLAR**



**Withstanding Harsh Environment**  
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline.



**Low-light Performance**  
Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



**High Efficiency**  
High module conversion efficiency (up to 24.50%), through innovative manufacturing technology.



**Severe Weather Resilience**  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



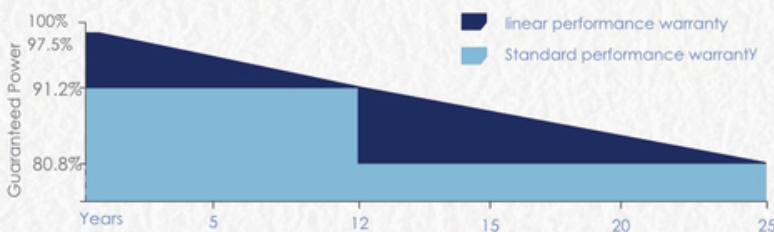
**Higher Quality Assurance**  
100% EL test.  
EL test, providing higher quality assurance



**Maximized Energy Harvest**  
Impedance matching technology eliminates mismatch losses, more power from each module bin.

**LINEAR PERFORMANCE WARRANTY**

10 Year Product Warranty | 25 Year Linear Power Warranty



## Electrical Characteristics

STC	SNS144CMT580Wp-SNS144CMT620Wp
Maximum Power at STC (Pmax)	600W
Optimum Operating Voltage (Vmp)	44.28V
Optimum Operating Current (Imp)	13.57A
Open Circuit Voltage (Voc)	51.55V
Short Circuit Current (Isc)	14.14A
Module Efficiency	23.22%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Power Tolerance	Positive

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;  
Tolerance of Pmax is within +/- 3% ;

### NMOT

Maximum Power at NMOT (Pmax)	448W
Optimum Operating Voltage (Vmp)	41.89V
Optimum Operating Current (Imp)	10.64A
Open Circuit Voltage (Voc)	48.71V
Short Circuit Current (Isc)	11.10A

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

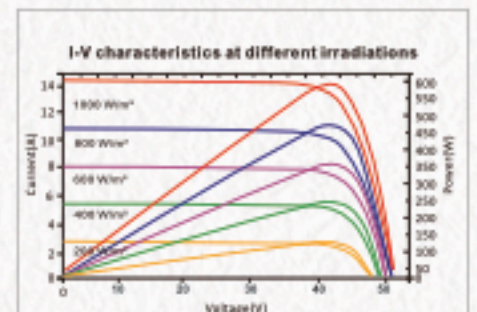
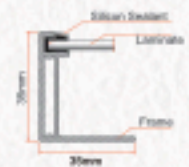
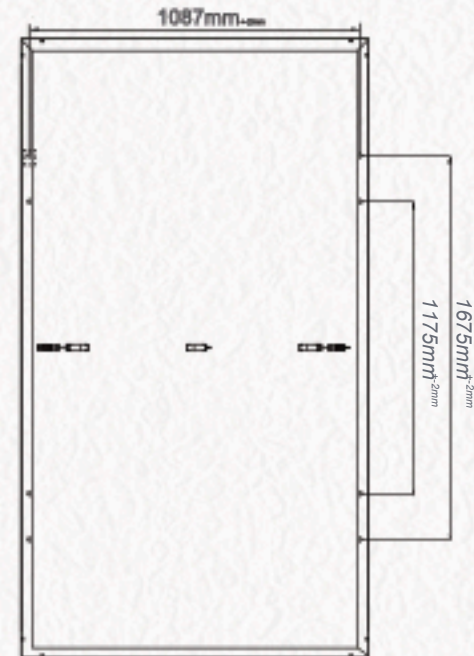
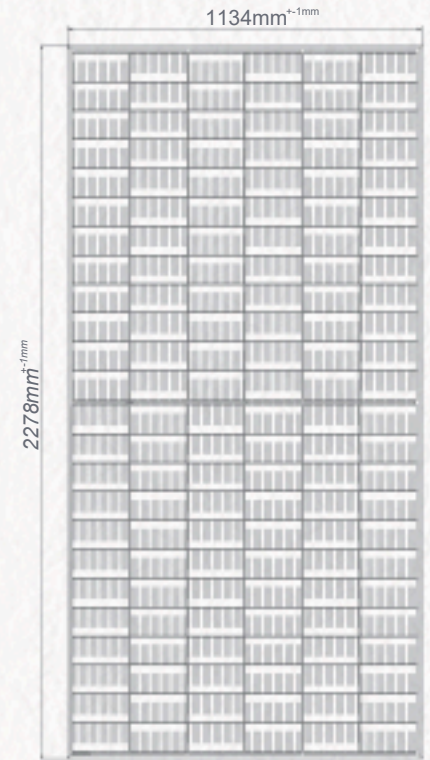
MODEL	600W
10% BIFACIAL GAIN	660.0W
20% BIFACIAL GAIN	720.0W
30% BIFACIAL GAIN	780.0W

## Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	
Temperature Coefficient of Pmax	
Temperature Coefficient of Voc	
Temperature Coefficient of Isc	

## Mechanical Characteristics

Solar Cell	91mmx182 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 35 mm
Weight	30.00 kgs
Front Glass	3.2 mm fully tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0 mm <sup>2</sup>
Connectors	Mc4



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