



TOENERGY
Way to Solar Energy

BC Type

565-585W

TN-MGB144

First Year Power Degradation **<1.5%**

Year 2-25 Power Degradation **0.40%**

Max Module Efficiency **22.6%**

Power Tolerance **0~3%**

▼ Characteristic

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- Best Solution to Harsh Conditions Power
- High Reliability Based On Strict Quantity Control
- High-quality module guarantees long-term reliability



Complete System and Product Certifications IEC 61215, IEC 61730, UL 61730, ISO 9001, ISO 14001, ISO 45001, IEC 62941

 Scan and focus on us

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● Technical Parameter

Electrical Characteristics(STC)

Module Type	TN-MGB144-565W	TN-MGB144-570W	TN-MGB144-575W	TN-MGB144-580W	TN-MGB144-585W
Maximum Power (Pmax/W)	565	570	575	580	585
Open Circuit Voltage (Voc/V)	51.80	51.90	52.10	52.20	52.40
Short Circuit Current (Isc/A)	13.95	14.03	14.11	14.18	14.25
Voltage at Maximum Power (Vmp/V)	43.60	43.80	43.90	44.10	44.20
Current at Maximum Power (Imp/A)	12.96	13.02	13.10	13.16	13.24
Module Efficiency(%)	21.9	22.1	22.3	22.5	22.6

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ± 3%

Mechanical Parameters

Cell Orientation	144(6X24)
Junction	IP68
Output Cable	4mm ² , +400,-200mm/±1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered
Frame	Anodized aluminum alloy frame
Weight	27.2kg
Dimension	2278×1134×30mm
Packagin	31pcs per pallet 155pcs per 20' GP 620pcs per 40' HC

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature _g	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class Cm

Mechanical Loading

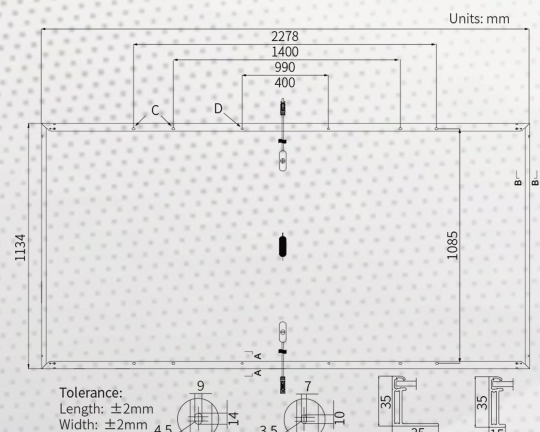
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

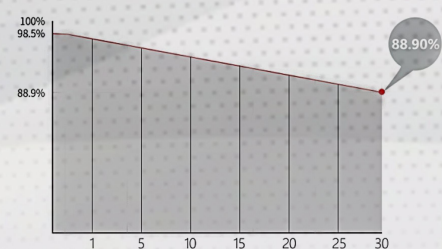
Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C



Dimensions(Units:mm)



Additional Value



Warranty

- 12 Years Warranty for Materials And Processing
- 30 Years Warranty for Extra Linear Power Output