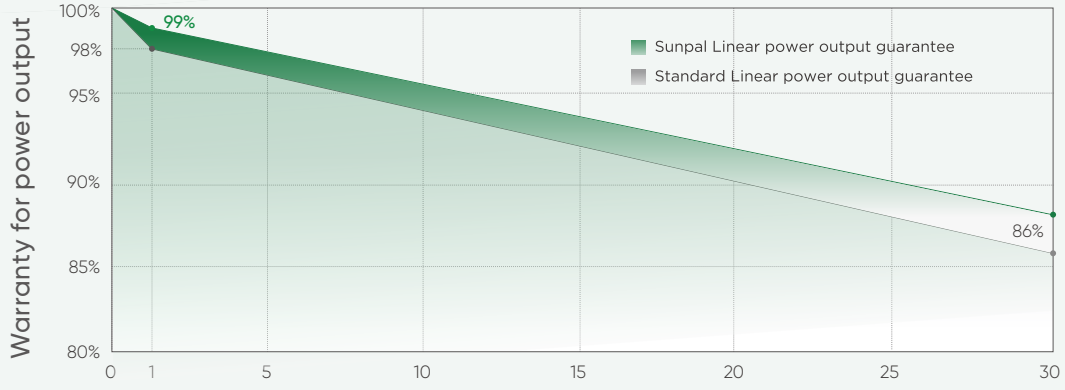
BiMAX 5 N

# 555-585W

## *N-type TOPCon Bifacial Dual Glass Solar Module*

## *Quality Guarantee*

*25-year Materials Warranty*
*30-year Power Warranty*




87.4%

**22.64%**
Max Module Eff.

**0~+5W**
Positive Tolerance

### Complete System and Product Certifications

IEC61215/IEC61730
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO 45001: Occupational Health and Safety Management System

* Specifications subject to technical changes and tests. Sunpal Solar reserves the right of interpretation.

**Positive power tolerance** (0~+5W) guaranteed

**High module conversion efficiency** (up to 22.64%)

**Slower power degradation** enabled by Low LID Mono TOPCON technology: first year <1%, 0.40% year 2-30

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Reduced resistive loss** with lower operating current

**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current

Sunpal

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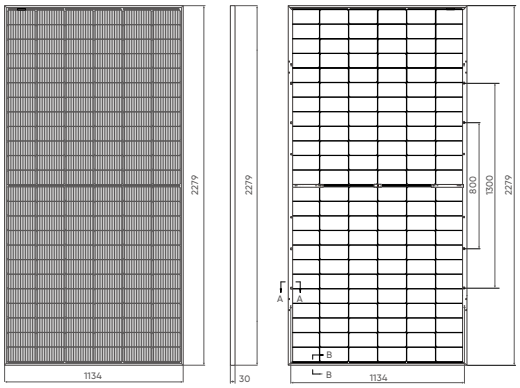
# BiMAX 5N 555~585W

## Design (mm)






(Unit: mm)

| | |
|---|---|
| Solar Cells | N-type Mono |
| No. of Cells | 144 (6×24) |
| Dimensions | 2279 × 1134 × 30mm |
| Weight | 31.5kg |
| Glass | Front: 2.0mm coated semi-tempered glass;<br>Back: 2.0mm semi-tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | Ip68 rated (3 bypass diodes) |
| Output Cables | 4mm², 300mm (+) / 300mm (-), Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |
| Packaging | 36pcs/box, 180pcs/20'GP, 720pcs/40'HQ |

| | |
|---|---|
| Operating Module Temperature | -40°C to +85°C |
| Maximun System Voltage | 1500 DC (IEC) |
| Maximun Series Fuse Rating | 30A |
| Power Tolerance | 0/+5W |

| | |
|---|---|
| Nominal Operating Temperature (NMOT) | 45±2°C |
| Temperature Coefficient of Pmax | -0.29%°C |
| Temperature Coefficient of Voc | -0.25%°C |
| Temperature Coefficient of Isc | +0.045%°C |

## Electrical Parameters (STC*)

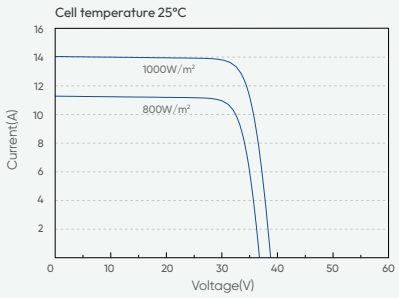
| Module Type: SP585M-72H | 555 | 560 | 565 | 570 | 575 | 580 | 585 |
|---|---|---|---|---|---|---|---|
| Maximum power (Pmax/W) | 555 | 560 | 565 | 570 | 575 | 580 | 585 |
| Open Circuit Voltage (Voc/V) | 51.00 | 51.14 | 51.28 | 51.41 | 51.55 | 51.79 | 52.03 |
| Short Circuit Current (Isc/A) | 13.94 | 14.01 | 14.08 | 14.15 | 14.22 | 14.29 | 14.36 |
| Voltage at Maximum power (Vmpp/V) | 41.95 | 42.11 | 42.26 | 42.41 | 42.56 | 42.71 | 42.86 |
| Current at Maximum Power (Imp/A) | 13.23 | 13.30 | 13.37 | 13.44 | 13.51 | 13.58 | 13.65 |
| Module Efficiency(%) | 21.48 | 21.67 | 21.86 | 22.06 | 22.25 | 22.44 | 22.64 |

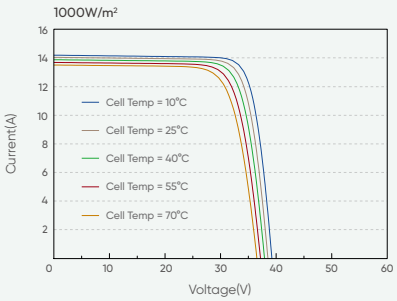
## Bifacial Output-Rearsid Power Gain

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5% | Maximum power (Pmax/W) | 583 | 588 | 593 | 599 | 604 | 609 | 614 |
| | Module Efficiency STC (%) | 22.55 | 22.75 | 22.96 | 23.16 | 23.36 | 23.55 | 23.76 |
| 15% | Maximum power (Pmax/W) | 638 | 644 | 650 | 656 | 661 | 667 | 673 |
| | Module Efficiency STC (%) | 24.70 | 24.92 | 25.14 | 25.36 | 25.59 | 25.82 | 26.04 |
| 25% | Maximum Power (Pmax/W) | 694 | 700 | 706 | 713 | 719 | 725 | 731 |
| | Module Efficiency STC (%) | 26.84 | 27.09 | 27.33 | 27.57 | 27.81 | 28.04 | 28.28 |

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

## I-V Curve

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