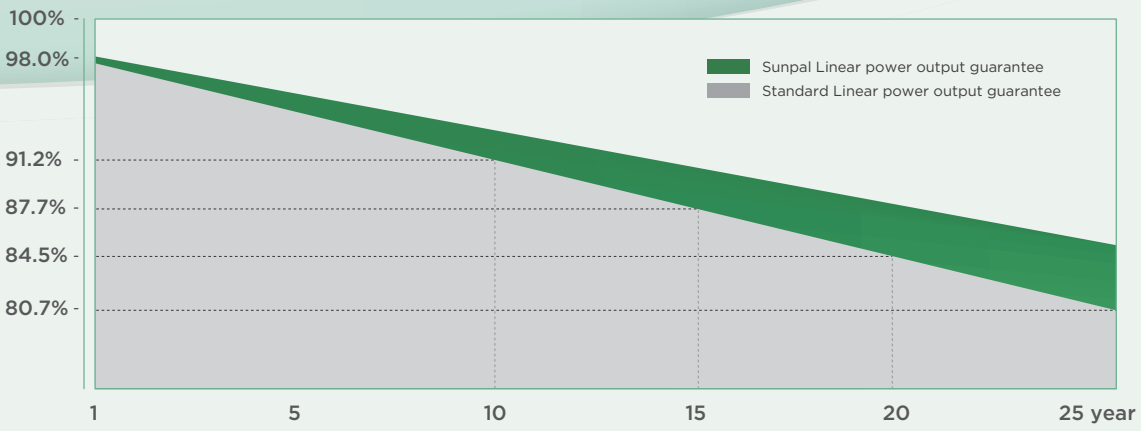
BiMAX 6

# 480~505W

## *210mm Cells Mono PERC with MBB & Half-cut Technology*

## *Quality Guarantee*

*12-year Warranty for Materials and Processing*
*25-year Warranty for Extra Linear Power Output*




**21%**
Max Module Eff.

**0~+5W**
Positive Tolerance

### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO 9001:2008: ISO Quality Management System
ISO 14001: 2004: ISO Environment Management System
OHSAS 18001: 2007 Occupational Health and Safety

* 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 21%)

**Slower power degradation** enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

**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

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Making more power

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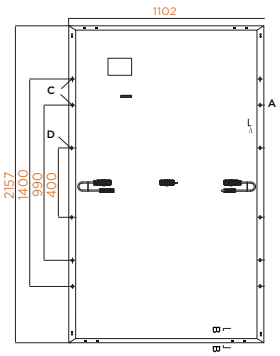
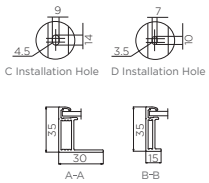
## Design (mm)




Tolerance:
Units: mm
Length: ±2mm Width: ±2mm
Height: ±1mm Hole distance: ±1mm

| | |
|---|---|
| **Cell Orientation** | 150 (5x30) |
| **Junction Box** | IP68, three diodes |
| **Output Cable** | 4mm², 300mm in length, |
| | length can be customized |
| **Glass** | Single glass |
| | 3.2mm coated tempered glass |
| **Frame** | Anodized aluminum alloy frame |
| **Weight:** | 30.1 kg±3% |
| **Dimension** | 2187x1102x35mm |
| **Packaging** | 30pcs per pallet |
| | 600pcs per 40'ft Container |

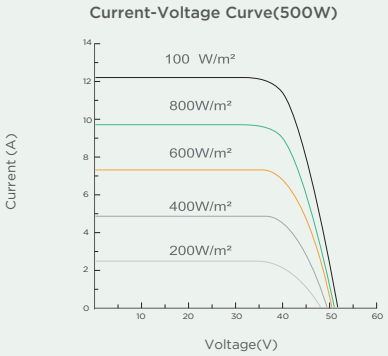
| | |
|---|---|
| **Operational Temperature** | -40°C~+85°C |
| **Power Output Tolerance** | 0~+4.99W |
| **Voc & Isc Tolerance** | ±3% |
| **Max. System Voltage** | DC1500V(IEC/UL) |
| **Max. Series Fuse Ratin** | 20A |
| **NOCT** | 45±2°C |
| **Safety Class** | II |
| **Fire Rating** | UL type 1 or 2 |
| **Max. Static Load(Front)** | 5400Pa |
| **Max. Static Load(Back)** | 2400Pa |

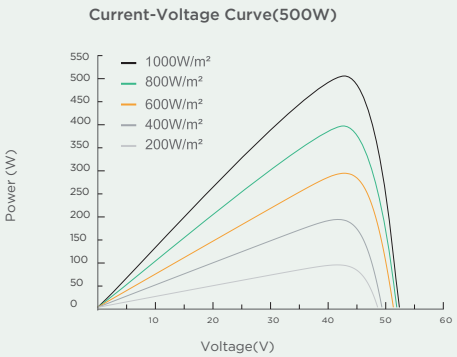
## Electrical Characteristics

| Model Number | SP480M-75H | | SP485M-75H | | SP490M-75H | | SP495M-75H | | SP500M-72H | | SP505M-75H | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Testing Condition** | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| **Maximum Power (Pmax/W)** | 480 | 363 | 485 | 367 | 490 | 371 | 495 | 375 | 500 | 379 | 505 | 382 |
| **Open Circuit Voltage (Voc/V)** | 50.70 | 48.00 | 50.9 | 48.20 | 51.10 | 48.40 | 51.30 | 48.60 | 51.50 | 48.80 | 51.70 | 49.00 |
| **Short Circuit Current (Isc/A)** | 11.97 | 9.65 | 12.01 | 9.72 | 12.05 | 9.77 | 12.09 | 9.83 | 12.13 | 9.89 | 12.17 | 9.94 |
| **Voltage at Maximum Power (Vmp/V)** | 42.20 | 39.60 | 42.50 | 39.80 | 42.80 | 40.00 | 43.10 | 40.20 | 43.40 | 40.40 | 43.70 | 40.60 |
| **Current at Maximum Power (Imp/A)** | 11.38 | 9.15 | 11.42 | 9.20 | 11.45 | 9.26 | 11.49 | 9.32 | 11.53 | 9.37 | 11.56 | 9.43 |
| **Module Efficiency(%)** | 19.9 | | 20.1 | | 20.3 | | 20.5 | | 20.7 | | 21 | |
| **Temperature Coefficient of Isc** | +0.05%/°C | | | | | | | | | | | |
| **Temperature Coefficient of Voc** | -0.28%/°C | | | | | | | | | | | |
| **Temperature Coefficient of Pmax** | -0.360%/°C | | | | | | | | | | | |

* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5
* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S
*Test uncertainty for Pmax: ±3%

## I-V Curve





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