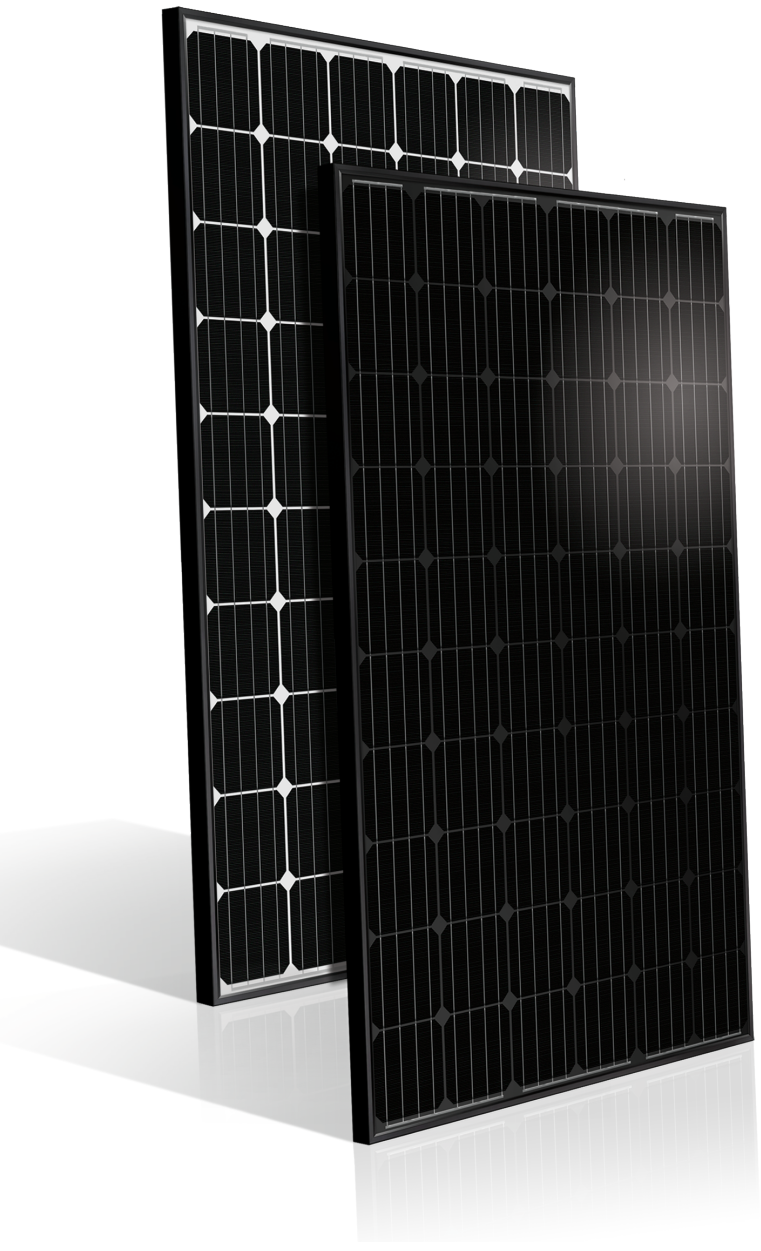
# SunVivo
# PM060MW2 / PM060MB2

## Mono-Crystalline Photovoltaic Module



**Power Range**
290 ~ 310 Wp

**Strong Wind Resistance**
Dynamic mechanical loading 4 times higher than the IEC requirement

**PID-Resistance**
Certified high PID resistance passing 1000-hour tough environmental test

**Superior Weak Light Performance**
Improved absorption of long wavelength light

**Enhanced Salt Mist and Humidity Resistance**
12 times more salt-mist resistant and 40% more moisture exclusion

**Ammonia Test**
Reliable in ammonia rich environment

# SunVivo PM060MW2 / PM060MB2 (290 ~ 310 Wp)

## Electrical Data ( STC )

| | | | | | |
|---|---|---|---|---|---|
| Nominal Power $P_N$ | 290W | 295W | 300W | 305W | 310W |
| Module Efficiency | 17.8% | 18.1% | 18.4% | 18.7% | 19.1% |
| Nominal Voltage $V_{mp}$ (V) | 32.3 | 32.6 | 32.7 | 32.9 | 33.1 |
| Nominal Current $I_{mp}$ (A) | 8.99 | 9.05 | 9.18 | 9.28 | 9.38 |
| Open Circuit Voltage $V_{OC}$ (V) | 39.7 | 39.8 | 39.9 | 40.2 | 40.5 |
| Short Circuit Current $I_{SC}$ (A) | 9.57 | 9.63 | 9.80 | 9.91 | 10.02 |
| Maximum Tolerance of $P_N$ | | | 0 / +3% | | |

- Above data are the effective measurement at Standard Test Conditions (STC)
- STC: irradiance 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3
- Black back sheet (PM060MB2) is utilized for 290W & 300W; white back sheet (PM060MW2) is for 295W - 310W

## Electrical Data ( NOCT )

| | | | | | |
|---|---|---|---|---|---|
| Nominal Power $P_N$ | 212W | 217W | 220W | 224W | 228W |
| Nominal Voltage $V_{mp}$ (V) | 29.5% | 29.8% | 29.9% | 30.1% | 30.3% |
| Nominal Current $I_{mp}$ (A) | 7.20 | 7.29 | 7.38 | 7.48 | 7.54 |
| Open Circuit Voltage $V_{OC}$ (V) | 36.8 | 37.0 | 37.1 | 37.3 | 37.6 |
| Short Circuit Current $I_{SC}$ (A) | 7.70 | 7.79 | 7.93 | 8.02 | 8.11 |

- Above data are the effective measurement at Normal Operation Cell Temperature (NOCT)
- NOCT:irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

## Temperature Coefficient

| | |
|---|---|
| NOCT | 46 ± 2 °C |
| Typ. Temperature Coefficient of $P_N$ | -0.42% / K |
| Typ. Temperature Coefficient of $V_{OC}$ | -0.30% / K |
| Temperature Coefficient of $I_{SC}$ | 0.05% / K |

## Mechanical Characteristics

| | |
|---|---|
| Dimensions (L x W x H) | 1640 x 992 x 40 mm (64.57 x 39.05 x 1.57 in) * |
| Weight | 18.5 kg (40.79 lbs) |
| Front Glass | High transparent solar glass (tempered), 3.2 mm (0.13 in) |
| Cell | 60 monocrystalline solar cells |
| Back Sheet | Composite film |
| Frame | Anodized aluminum frame |
| Junction Box | IP-68 rated with 3 bypass diodes |
| Connector Type | MC4 KST4/KBT4: 1 x 4 mm² (0.04 x 0.16 in²) |

* Module Dimension (L x W) Tolerance: ± 2 mm (0.079 in)

## Operating Conditions

| | |
|---|---|
| Operating Temperature | -40 ~ +85 °C |
| Ambient Temperature Range | -40 ~ +45 °C |
| Max. System Voltage | 1000 V / 1500 V |
| Serial Fuse Rating | 15 A |
| Max.Snow / Wind Load | 5400 Pa / 2400 Pa |
| Max.Dynamic Mechanical Load | 4000 Pa |

## Warranties and Certifications

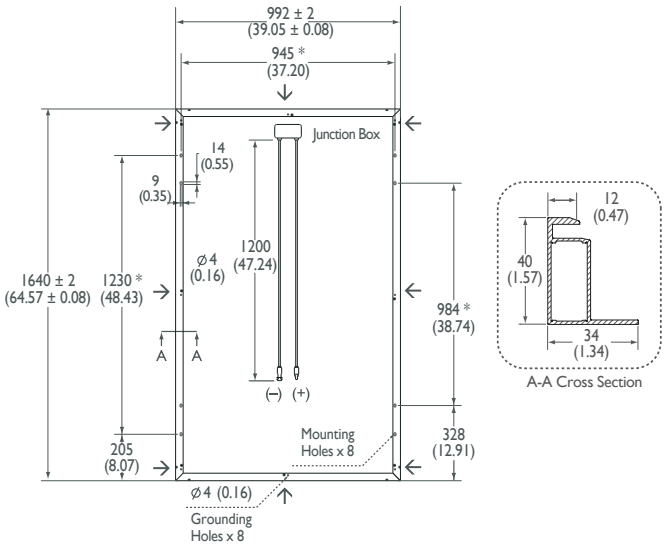
| | |
|---|---|
| Product Warranty | Maximum 15 years for material and workmanship |
| Performance Guarantee | Guaranteed linear degradation to 80% for 25 years *1 |
| Certifications | According to IEC/EN 61215, IEC/EN 61730 and UL 1703 guidelines *2 |

*1: Please refer to warranty letter for detail
*2: Please confirm other certifications with official dealers

## Packing Configuration

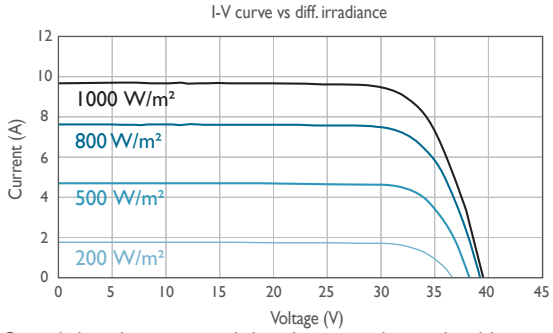
| Container | 20' GP | 40' GP | 40' HQ |
|---|---|---|---|
| Pieces per Pallet | 26 | 26 | 26 |
| Pallets per Container | 6 | 14 | 28 |
| Pieces per Container | 156 | 364 | 728 |

## Dimensions mm (inch)




* Distance between two Mounting Holes
→ Grounding Holes

## I-V Curve




Current/voltage characteristics with dependence on irradiance and module temperature.

About AU Optronics

AU Optronics (AUO) is a leading global manufacturer of TFT-LCD committed to providing green solutions to its worldwide customers in a manner that is sustainable and friendly to the environment. In addition to its strengths in product and technological innovation, AUO stresses its commitment to going green and to utilizing manufacturing excellence to develop high efficiency solar solutions for residential, commercial, and utility segments.

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