

SunVivo

PM060MW2/PM060MB2

Mono-Crystalline Photovoltaic Module





Power Range 290 ~ 310 Wp



Highly Strengthened Design Module complies with advanced loading tests to meet 5400 Pa loading requirements



PID-Resistance (up to Diamond Level) Certified high PID resistance



Superior Weak Light Performance Improved absorption of long wavelength light



Flammability Test Low ignitability ensuring fire safety



Resistance to Salt Corrosion and Humidity Module complies with IEC 61701: Salt Mist Corrosion Testing



Ammonia Test
Reliable in ammonia rich environment







SunVivo PM060MW2/PM060MB2 (290 ~ 310 Wp)

Electrical Data

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

Temperature Coefficient

NOCT	46 ± 2 °C
Typ. Temperature Coefficient of P_N	-0.42% / K
Typ.Temperature Coefficient of Voc	-0.30% / K
Temperature Coefficient of Isc	0.05% / K

 $[\]bullet \, NOCT: Normal \, Operation \, Cell \, Temperature, measuring \, conditions; irradiance \, 800 \, W/m^2, \, AM \, I.5, air \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I \, \, m/s \, \, temperature \, 20 \, ^{\circ}C, wind \, speed \, \, I$

Mechanical Characteristics

Dimensions (L x W x H)	1640 x 992 x 40 mm (64.57 x 39.05 x 1.57 in)
Weight	19 kg (41.89 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-67 rated with 3 bypass diodes
Connector Type & Cables	TE Connectivity PV4: 1 \times 4 mm² (0.04 \times 0.16 in²), Length: each 1.0 m (39.37 in)

Operating Conditions

Operating Temperature	-40 ~ +85 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage IEC/UL	1000 V / 1000 V
Serial Fuse Rating	15 A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

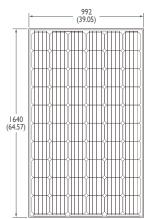
Warranties and Certifications

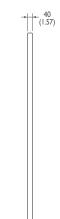
Product Warranty	Maximum 12 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 80% for 25 years *I
Certifications	According to IEC/EN 61215, IEC/EN 61730 and UL 1703 guidelines *2

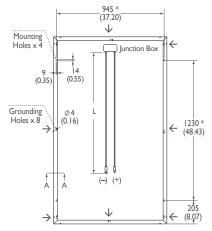
Packing Configuration

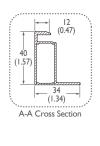
0 0			
Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	6	14	28
Pieces per Container	156	364	728

Dimensions mm (inch)



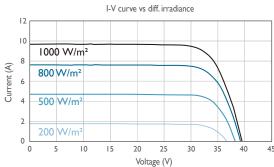






- → Grounding Holes

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.



^{*} Above data are the effective measurement at Standard Test Conditions (STC)
* STC: irradiance $1000\,\text{W/m}^2$, spectral distribution AM 1.5, temperature $25\pm2\,^\circ\text{C}$, in accordance with EN 60904-3
* Black back sheet (PM060MB2) is utilized for 290W & 300W; white back sheet (PM060MW2) is for 295W - 310W

^{*}I: Please refer to warranty letter for detail