



BenQ Group

SunVivo

PM060MWVR / PM060MBR

Mono-Crystalline Photovoltaic Module



270W_p
285W_p

Power Range
270 ~ 285 Wp



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



Flammability Test
Low ignitability ensuring fire safety



Anti-Reflection Coated Glass
Anti-reflective surface enhances the power
performance



SunVivo PM060MWR/PM060MBR (270 ~ 285 W_p)

Electrical Data

Typ. Nominal Power P _N	270W	275W	280W	285W
Typ. Module Efficiency	16.6%	16.9%	17.2%	17.5%
Typ. Nominal Voltage V _{mp} (V)	31.06	31.29	31.53	31.76
Typ. Nominal Current I _{mp} (A)	8.69	8.79	8.88	8.97
Typ. Open Circuit Voltage V _{oc} (V)	38.45	38.77	39.10	39.43
Typ. Short Circuit Current I _{sc} (A)	9.07	9.20	9.34	9.48
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
 • The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of P_N. The classifications is performed according to P_N.
 • Black back sheet (PM060MBR) is utilized for 270-280W; white back sheet (PM060MWR) is for 275-285W.

Temperature Coefficient

NOCT	50 °C
Typ. Temperature Coefficient of P _N	-0.41% / K
Typ. Temperature Coefficient of V _{oc}	-0.33% / K
Temperature Coefficient of I _{sc}	0.04% / K

• NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Dimensions (L x W x H)	1640 x 992 x 40 mm (64.57 x 39.05 x 1.57 in)
Weight	20.0 kg (44.09 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	PV4 Compatible: 1 x 4 mm ² (0.04 x 0.16 in ²), Length: each 1.0 m (39.37 in)

Operating Conditions

Operating Temperature	-40 ~ +85 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage UL	1000V
Serial Fuse Rating	15 A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to UL1703

Warranties and Certifications

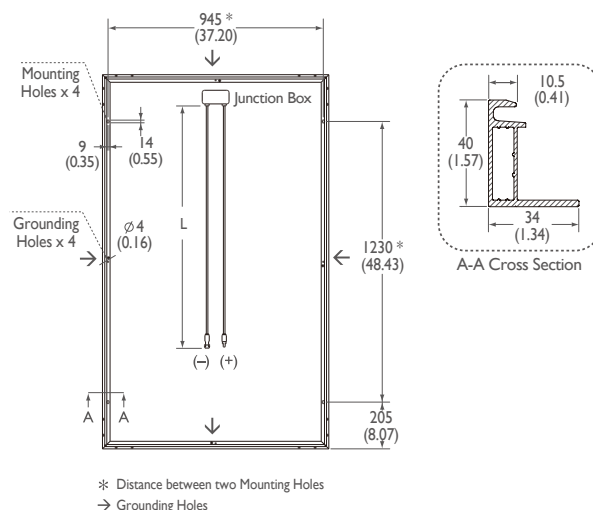
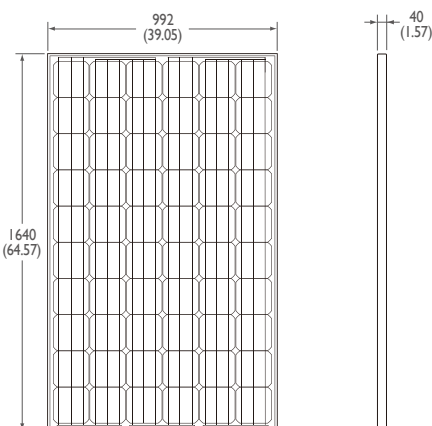
Product Warranty	Maximum 10 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 80% for 25 years *1
Certifications	According to UL 1703 guidelines *2

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

Packing Configuration

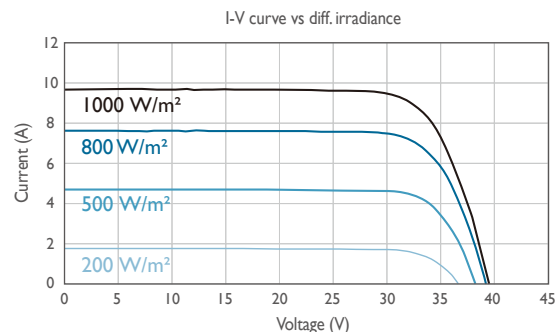
Container	45' Truck	48' Truck	53' Truck
Pieces per Pallet	26	26	26
Pallets per Truck	28	30	32
Pieces per Truck	728	780	832

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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