

Aer PM060M0 I

Mono-Crystalline
Photovoltaic Module



10.5
kg

280W
295W

Power Range

280 ~ 295 Wp



Light

Light

Weight reducing 45% to save labor and shipping cost



SAFE

Increased Safety

The lightweight design reduces roof load and increases the safety to use and maintain the solar system



Flammability Test

Low ignitability ensuring fire safety



IP-67 Rated Junction Box

Advanced water and dust proof level



PID-Free



Resistance to Salt Corrosion and Humidity

Module complies with IEC 61701: Salt Mist Corrosion Testing



Ammonia Test

Reliable in ammonia rich environment



BenQ

BenQ
Solar

Aer PM060M01 (280 ~ 295 W_p)

Preliminary Edition

Electrical Data

Typ. Nominal Power P _N	280W	285 W	290W	295W
Typ. Module Efficiency	17.4%	17.7%	18.0%	18.3%
Typ. Nominal Voltage V _{mp} (V)	32.7	31.0	31.3	31.6
Typ. Nominal Current I _{mp} (A)	8.57	9.20	9.27	9.34
Typ. Open Circuit Voltage V _{oc} (V)	38.9	40.0	40.4	40.9
Typ. Short Circuit Current I _{sc} (A)	9.06	9.80	9.82	9.86
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

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

- * 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 35 mm (64.57 x 39.06 x 1.38 in)
Weight	10.5 kg (23.15 lbs)
Front Glass	High transparent solar glass
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 x 4 mm ² (0.04 x 0.16 in ²), Length: each 1.0 m (39.37 in) YUKITA YS-254/ YS-255: 1 x 4 mm ² (0.04 x 0.16 in ²), Length: each 1.065 m (41.93 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

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 IEC/EN 61215, IEC/EN 61730 and UL 1703 guidelines *2

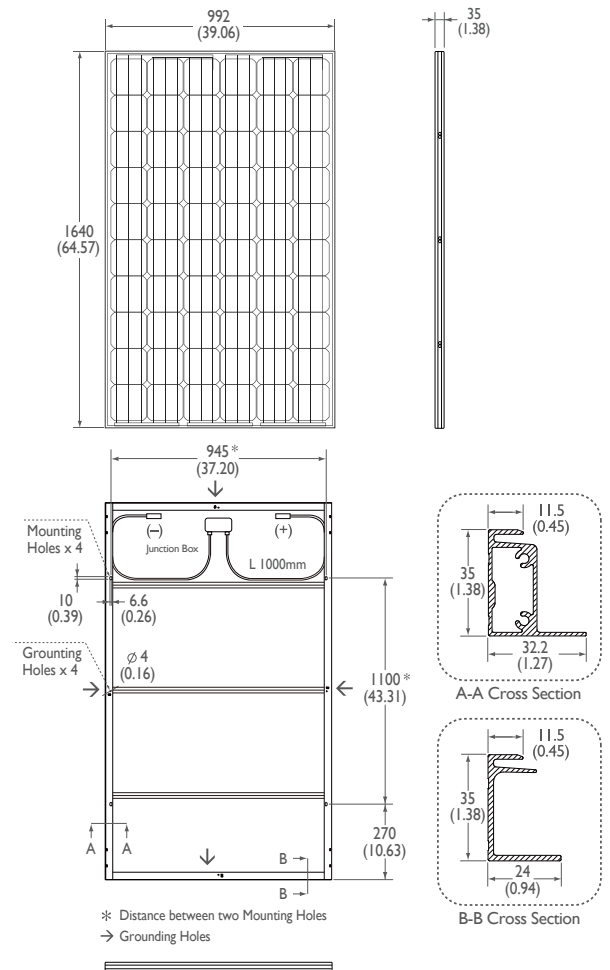
*1: Please refer to warranty letter for detail

*2: Please confirm other certifications with official dealers

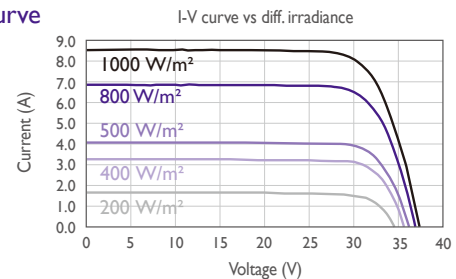
Packing Configuration

Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	6	13	26
Pieces per Container	156	338	676

Dimensions mm (inch)



I-V Curve



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

Dealer Stamp



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