

Green Triplex PM060M02

Mono-Crystalline
Photovoltaic Module



270W
280W

Power Range

270 ~ 280 Wp



Highly Strengthened Design

Module complies with advanced loading tests to meet 5400 Pa loading requirements



PID-Free



Superior Weak Light Performance

Improved absorption of long wavelength light



Flammability Test

Low ignitability ensuring fire safety



IP-67 Rated Junction Box

Advanced water and dust proof level



Resistance to Salt Corrosion and Humidity

Module complies with IEC 61701: Salt Mist Corrosion Testing



Ammonia Test

Reliable in ammonia rich environment



BenQ
Solar

GreenTriplex PM060M02 (270 ~ 280 W_p)

Electrical Data

Typ. Nominal Power P _N	270W	275W	280W
Typ. Module Efficiency	16.8%	17.1%	17.4%
Typ. Nominal Voltage V _{mp} (V)	31.8	32.3	32.7
Typ. Nominal Current I _{mp} (A)	8.50	8.52	8.57
Typ. Open Circuit Voltage V _{oc} (V)	38.5	38.7	38.9
Typ. Short Circuit Current I _{sc} (A)	9.01	9.03	9.06
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)	1639 x 983 x 40 mm (64.53 x 38.70 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-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 (advanced test)

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

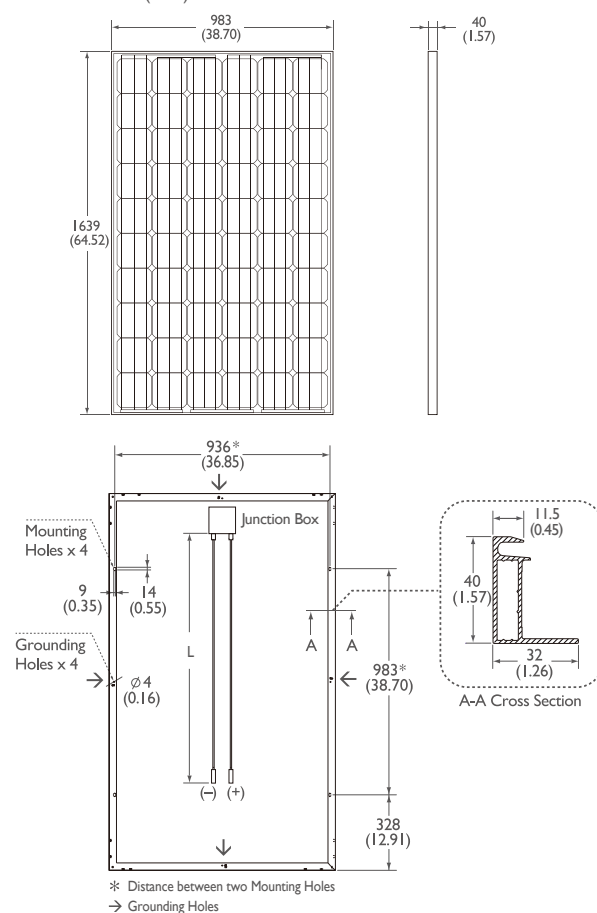
*1: Please refer to warranty letter for detail

*2: Please confirm other certifications with official dealers

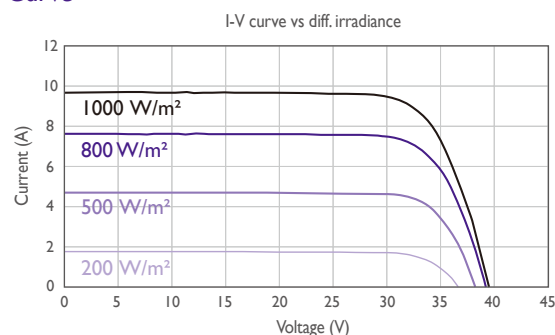
Packing Configuration

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

Dimensions mm (inch)



I-V Curve



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

Dealer Stamp



AU Optronics Corporation

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BenQ
Solar

Green Triplex

PM060M02^{Plus}

Mono-Crystalline
Photovoltaic Module



280W
295W

Power Range
280 ~ 295 Wp



Highly Strengthened Design

Module complies with advanced loading tests to meet 5400 Pa loading requirements



PID-Free



Superior Weak Light Performance

Improved absorption of long wavelength light



Flammability Test

Low ignitability ensuring fire safety



IP-67 Rated Junction Box

Advanced water and dust proof level



Resistance to Salt Corrosion and Humidity

Module complies with IEC 61701: Salt Mist Corrosion Testing



Ammonia Test

Reliable in ammonia rich environment



BenQ
Solar

Green Triplex PM060M02^{Plus} (280~295 W_p)

Electrical Data

Typ. Nominal Power P _N	280W	285W	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%			

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- 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 classification is performed according to P_N
- Black back sheet is utilized for 280-290W; white back sheet is for 285-295W

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

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Mechanical Characteristics

Dimensions (L x W x H)	1639 x 983 x 40 mm (64.53 x 38.70 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 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)

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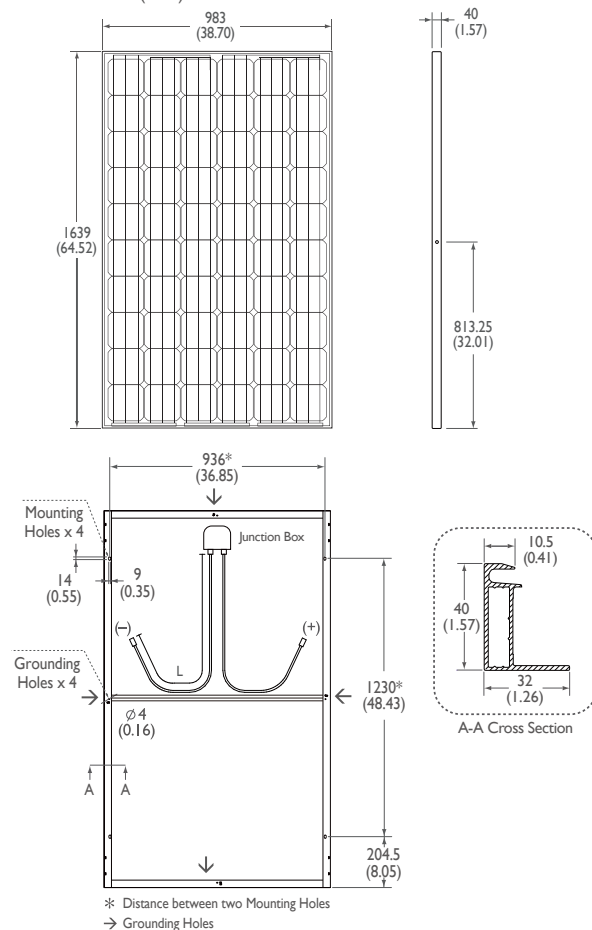
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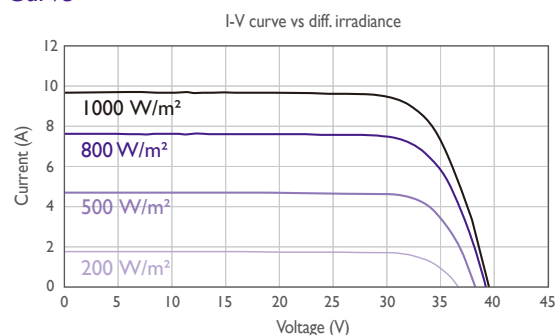
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