GreenTriplex
PM060M02

Mono-Crystalline
Photovoltaic Module

Power Range
270 ~ 290 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

PV CYCLE   ICIM   MADE IN EUROPE   MADE IN TAIWAN

BenQ

BenQ
Solar

GreenTriplex PM060M02 (270 ~ 290 Wp)

Electrical Data

	270W	275W	280W	285W	290W
Typ. Nominal Power P_N	270W	275W	280W	285W	290W
Typ. Module Efficiency	16.8%	17.1%	17.4%	17.7%	18.0%
Typ. Nominal Voltage V_{mp} (V)	31.8	32.3	32.7	31.0	31.3
Typ. Nominal Current I_{mp} (A)	8.50	8.52	8.57	9.20	9.27
Typ. Open Circuit Voltage V_{OC} (V)	38.5	38.7	38.9	40.0	40.4
Typ. Short Circuit Current I_{SC} (A)	9.01	9.03	9.06	9.80	9.82
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	-0.44% / K
Typ. Temperature Coefficient of V_{OC}	-0.30% / K
Temperature Coefficient of I_{SC}	0.06% / 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, 156 x 156 mm (6 x 6 in)
Cell Encapsulation	EVA
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 mm² (0.04 x 0.16 in²), Length: each 1.0 m (39.37 in) YUKITA YS-254/ YS-255: 1 x 4 mm² (0.04 x 0.16 in²), 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

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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
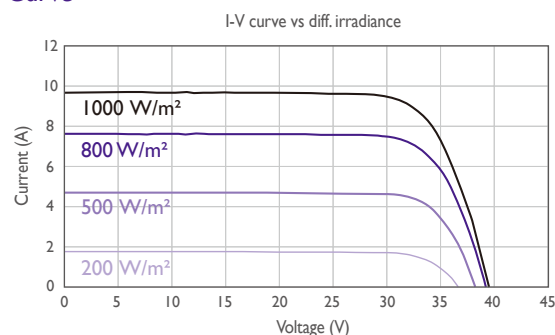*2: Please confirm other certifications with official dealers

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)

※ Distance between two Mounting Holes
→ Grounding Holes

I-V Curve
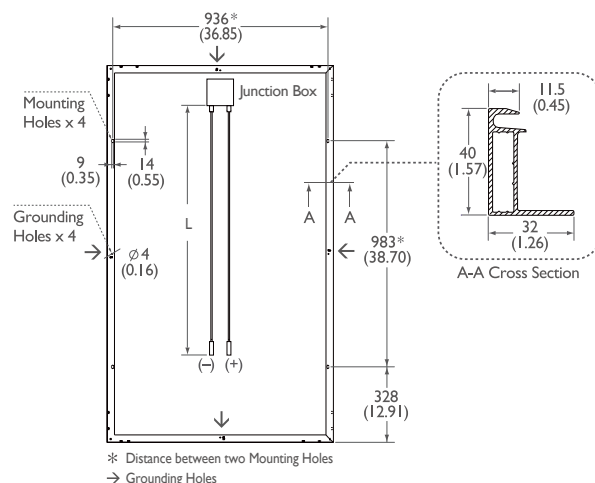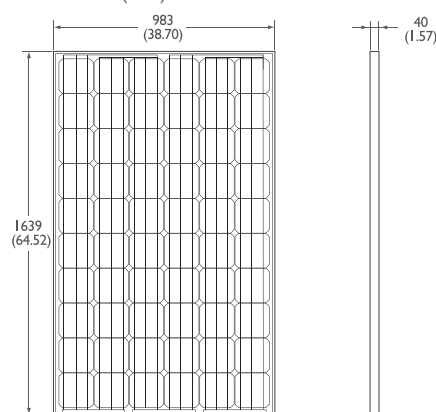
I-V curve vs diff. irradiance

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

Dealer Stamp

BenQ Solar