

# Green Triplex PM060M02

Mono-Crystalline  
Photovoltaic Module



270W  
290W

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

Optional



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 (270 ~ 290 Wp)

## Electrical Data

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/m<sup>2</sup>, 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/m<sup>2</sup>, 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")
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: 1x4mm <sup>2</sup> (0.04x0.16inch <sup>2</sup> ), Length: each 1.0m (39.37inches) YUKITA YS-254/YS-255: 1x4mm <sup>2</sup> (0.04x0.16inch <sup>2</sup> ), Length: each 1.065m (41.93inches)

## 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

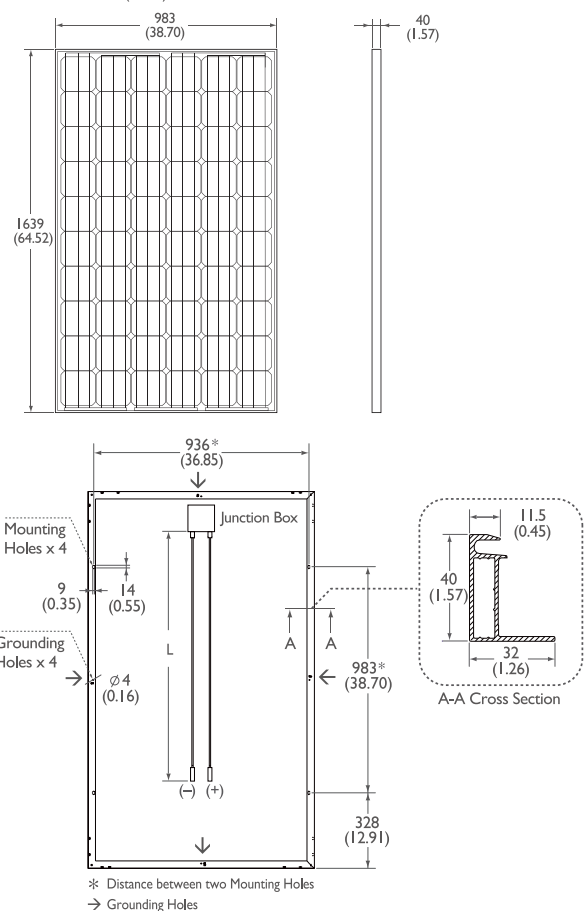
\*1: Please refer to warranty letter for detail

\*2: Please confirm other certifications with official dealers

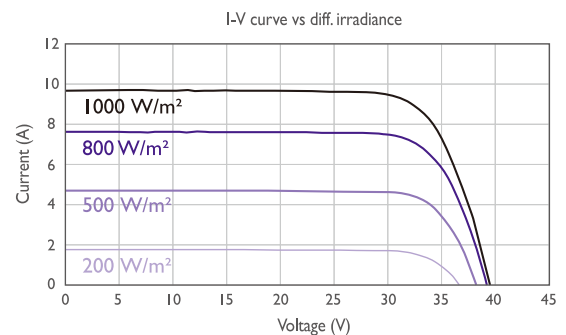
## Packing Configuration

Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	7	14	28
Pieces per Container	182	364	728

## Dimensions mm (inch)



## I-V Curve



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

Dealer Stamp



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