

# Green Triplex PM250M01

Mono-Crystalline  
Photovoltaic Module



255W  
280W

Power Range  
255 ~ 280 Wp



Highly Strengthened Design

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



Resistance to Salt Corrosion and Humidity

Module complies with IEC 61701: Salt Mist Corrosion Testing



IP-67 Rated Junction Box

Advanced water and dust proof level

Optional



AC Photovoltaic

Integrated with a Micro-inverter, the module has high and stable AC power output via panel level MPPT



Flammability Test

Low ignitability ensuring fire safety



Ammonia Test

Reliable in ammonia rich environment



PID-Free



BenQ  
Solar

# Green Triplex PM250M01 (255~280 Wp)

## Electrical Data

Typ. Nominal Power $P_N$	255 W	260 W	265 W	270 W	275 W	280 W
Typ. Module Efficiency	15.8%	16.1%	16.4%	16.8%	17.1%	17.4%
Typ. Nominal Voltage $V_{mp}$ (V)	30.3	30.8	31.3	31.8	32.3	32.7
Typ. Nominal Current $I_{mp}$ (A)	8.42	8.45	8.47	8.50	8.52	8.57
Typ. Open Circuit Voltage $V_{oc}$ (V)	37.8	38.0	38.2	38.5	38.7	38.9
Typ. Short Circuit Current $I_{sc}$ (A)	8.94	8.96	8.98	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/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  $P_N$
- Black backsheet is utilized for power range 255~275W; White backsheet is for 255~280W

## 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	18.5kg (40.79 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm
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	TYCO PV4: 1x4mm <sup>2</sup> (0.04x0.16 inch <sup>2</sup> ), Length: each 1.0 m (39.37 inches) YUKITA YS-254/YS-255: 1x4mm <sup>2</sup> (0.04x0.16 inch <sup>2</sup> ), Length: each 1.065 m (41.93 inches)

## 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 output of 90% for 10 years and 80% for 25 years
Certifications	According to IEC/EN 61215, IEC/EN 61730 and UL 1703 guidelines *

- \* 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



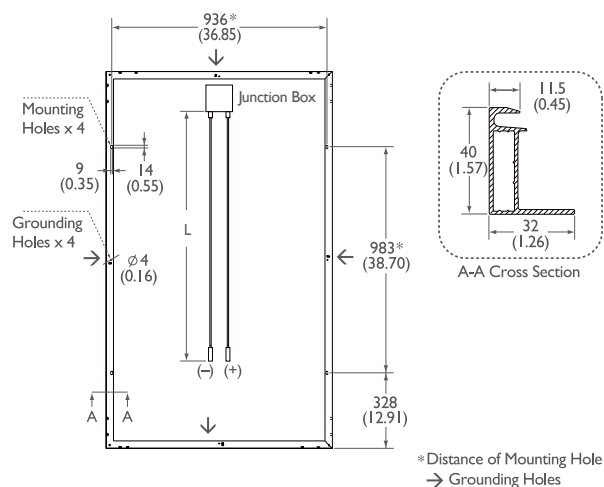
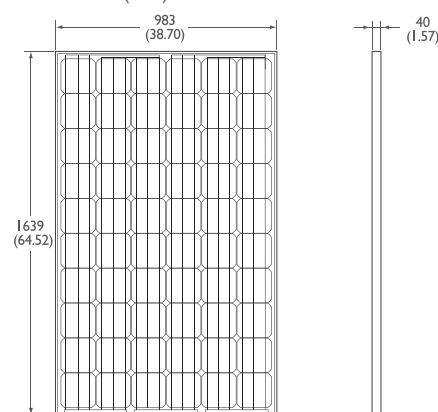
## AU Optronics Corporation

No. 1, Li-Hsin Rd. 2, Hsinchu Science Park, Hsinchu 30078, Taiwan  
Tel: +886-3-500-8899 E-mail: BenQSolar@auo.com www.BenQSolar.com

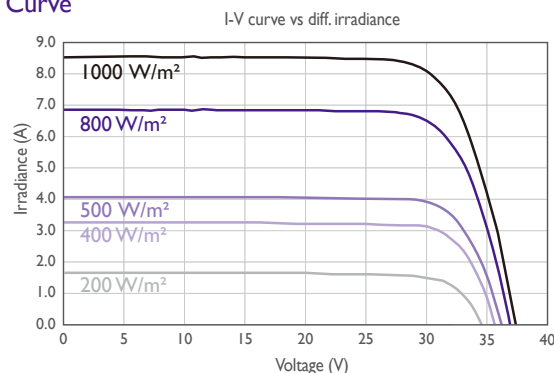


BenQ Solar is a division of AU Optronics This datasheet is printed with Soy Ink  
© Copyright April 2013 AU Optronics Corp. All rights reserved. Information may change without notice.

## Dimensions mm (inch)



## I-V Curve



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



BenQ Solar