

# GreenTriplex PM048M00

Mono-Crystalline  
Photovoltaic Module



215W  
230W

Power Range  
215 ~ 230 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 PM048M00 (215 ~ 230 Wp)

## Electrical Data

Typ. Nominal Power $P_N$	215W	220W	225W	230W
Typ. Module Efficiency	16.6%	17.0%	17.4%	17.8%
Typ. Nominal Voltage $V_{mp}$ (V)	24.4	24.5	25.0	25.1
Typ. Nominal Current $I_{mp}$ (A)	8.82	8.99	9.00	9.17
Typ. Open Circuit Voltage $V_{OC}$ (V)	30.7	30.8	31.8	32.4
Typ. Short Circuit Current $I_{SC}$ (A)	9.00	9.08	9.47	9.65
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 $P_N$	-0.42 % / 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/m<sup>2</sup>, AM 1.5, air temperature 20 °C, wind speed 1 m/s

## Mechanical Characteristics

Dimensions (L x W x H)	1318 x 983 x 40 mm, (51.89 x 38.70 x 1.57 in)
Weight	15.4 kg (33.5 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 in)
Cell	48 monocrystalline solar cells
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-67 rated with 3 bypass diodes
Connector Type & Cables	YUKITA YS-254/YS-255 : 1 x 4 mm <sup>2</sup> (0.04 x 0.16 in <sup>2</sup> ), length : each 1.0 m (39.37 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

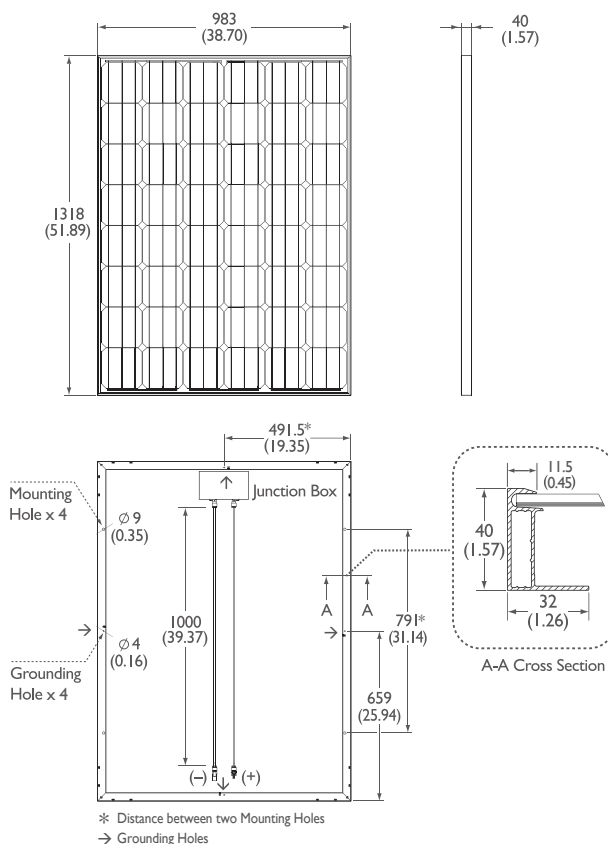
Product Warranty	Maximum 10 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 80% for 25 years *1
Certifications	According to IEC/EN 61215, IEC/EN 61730 and UL 1703 guidelines *2

- \*1: Please refer to warranty letter for detail
- \*2: Please confirm other certifications with official dealers

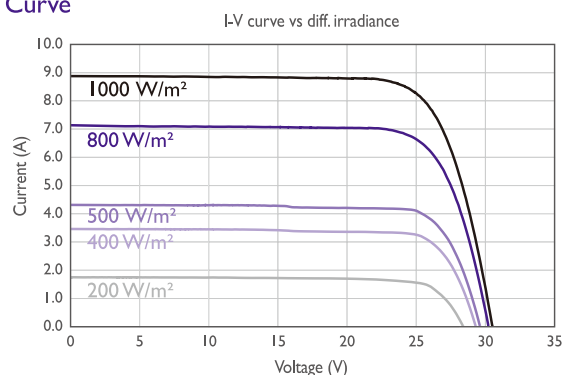
## Packing configuration

Container	20' GP	40' GP	40' HQ
Pieces per pallet	26	26	26
Pallets per container	8	16	32
Pieces per container	208	416	832

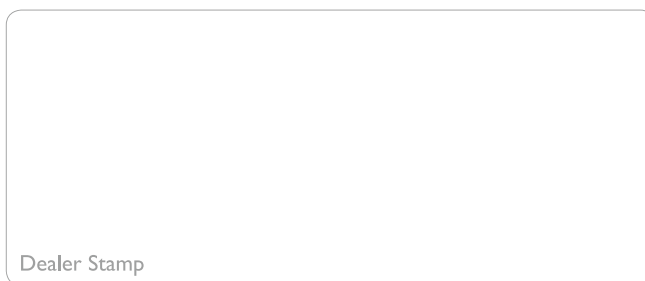
## Dimensions mm (inch)



## I-V Curve



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



## AU Optronics Corporation

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