

# EcoDuo

## PM240P00

Multi-Crystalline  
Photovoltaic Module



220W  
250W

**Power Range**  
220 ~ 250 Wp



**Resistance to salt corrosion and humidity**  
Module complies with IEC 61701: Salt Mist  
Corrosion Testing



**Highly Strengthened Design**  
Module complies with advanced loading tests to  
meet 5400 Pa loading requirements

Optional



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



BenQ  
Solar

# EcoDuo PM240P00 (220 ~ 250 W<sub>p</sub>)

## Electrical Data

Typ. Nominal Power P <sub>N</sub>	220 W	225 W	230 W	235 W	240 W	245 W	250 W
Typ. Module Efficiency	13.4%	13.7%	13.8%	14.1%	14.4%	14.7%	15.0%
Typ. Nominal Voltage V <sub>mp</sub> (V)	28.7	28.9	29.2	29.4	29.7	29.9	30.1
Typ. Nominal Current I <sub>mp</sub> (A)	7.78	7.91	7.94	8.02	8.10	8.18	8.26
Typ. Open Circuit Voltage V <sub>oc</sub> (V)	36.4	36.8	37.0	37.2	37.4	37.6	37.8
Typ. Short Circuit Current I <sub>sc</sub> (A)	8.36	8.46	8.49	8.55	8.62	8.68	8.75
Maximum Tolerance of P <sub>N</sub>	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<sub>N</sub>. The classification is performed according to P<sub>N</sub>

## Temperature Coefficient

NOCT	46 ± 2 °C
Typ. Temperature Coefficient of P <sub>N</sub>	-0.44 % / K
Typ. Temperature Coefficient of V <sub>oc</sub>	-0.32 % / K
Temperature Coefficient of I <sub>sc</sub>	0.04 % / 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)	1668 x 1000 x 40 mm (65.67 x 39.37 x 1.57 inches)
Weight	20 kg (44.1 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 inches)
Cell	60 multicrystalline solar cells, 156 mm x 156 mm (6" x 6")
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-65 rated with 3 bypass diodes
Cables	1x4 mm <sup>2</sup> (0.04x0.16 inch <sup>2</sup> ), length: each 1.0 m (39.37 inches)
Connector Type	Tyco plug or MC4 compatible

## Operating Conditions

Operating Temperature	-40 ~ +85 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage IEC/UL	1000V/600V
Serial Fuse Rating	15A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

## Warranties and Certifications

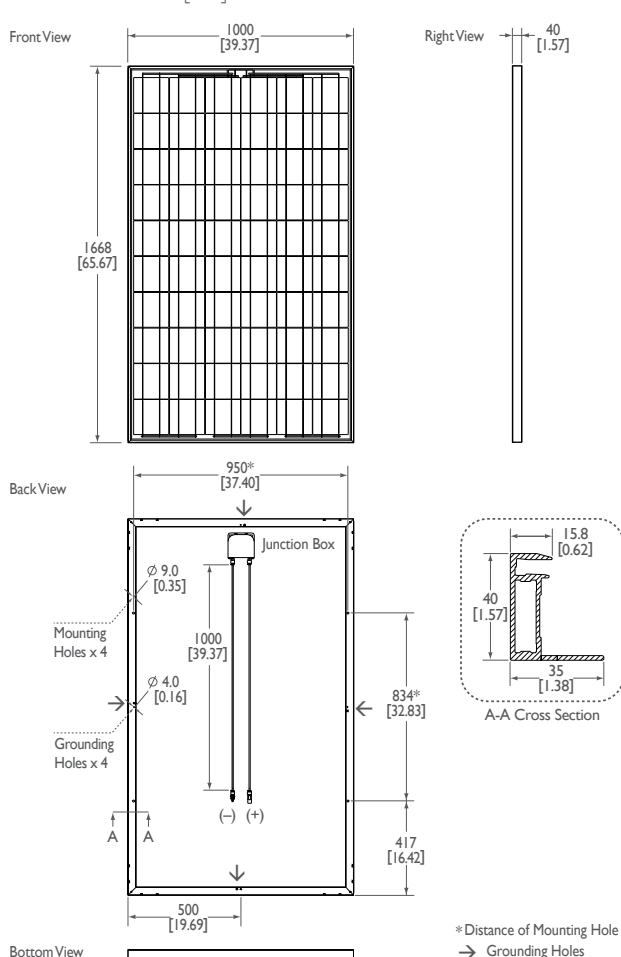
Product Warranty	10 years for material and workmanship
Performance Guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Certifications	According to IEC 61215, IEC 61730 and UL 1703 guidelines *

\* Please confirm other certifications with official dealers

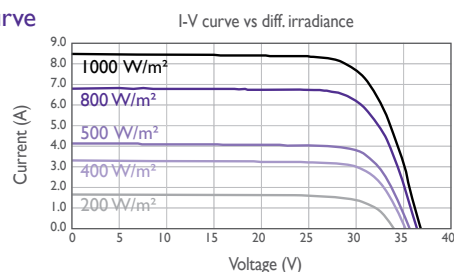
## Packing configuration

Container	20' GP	40' GP	40' HQ
Pieces per pallet	23	23	23
Pallets per container	6	13	26
Pieces per container	138	299	598

## Dimensions mm [inch]



## I-V Curve



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



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