



Photovoltaic Modules 235 WATT Black

ET Solar Polycrystalline Modules - Black Frame

ET-P660235B 235W

FEATURES

- Aesthetically appealing for residential and commercial systems with black frame
- Entire module certificated to withstand high wind loads and snow loads (112 lbs per square foot)
- Anodized aluminum frame improves load resistance capabilities
- Highly transparent, low-iron, and tempered glass and antireflective coating
- Excellent performance under low light environments

BENEFITS

- 25-year warranty on power output; 5-year warranty on materials and workmanship
- Product liability insurance
- Local technical support
- Local warehousing
- Enhanced design for easy installation and long term reliability



IEC 61215 Ed.2

IEC 61730



CONFORMS TO ANSI/UL STD 1703
CERTIFIED TO ULC/CSA STD ORDC1703

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ELECTRICAL SPECIFICATIONS

Model type	ET-P660235B	ET-P660230B	ET-P660225B	ET-P660220B
Peak power (Pmax)	235W	230W	225W	220W
Cell Efficiency	16.58%	16.22%	15.87%	15.52%
Module Efficiency	14.44%	14.14%	13.83%	13.52%
Maximum power voltage (Vmp)	29.90V	29.40V	29.33V	29.25V
Maximum power current (Imp)	7.86A	7.82A	7.67A	7.52A
Open circuit voltage (Voc)	36.96V	36.50V	36.35V	36.30V
Short circuit current (Isc)	8.40A	8.30A	8.25A	8.20A
Power Tolerance	±3%	0 to +5%	0 to +5%	0 to +5%
Maximum system voltage	DC 600V			
Normal Operating Cell Temperature	45.3±2°C			
Series fuse rating (A)	20A			
Number of bypass diode	3			

Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The NOCT is obtained under the Test Conditions : 800 W/m², 20°C ambient temperature, 1 m/s wind speed, AM 1.5 spectrum.

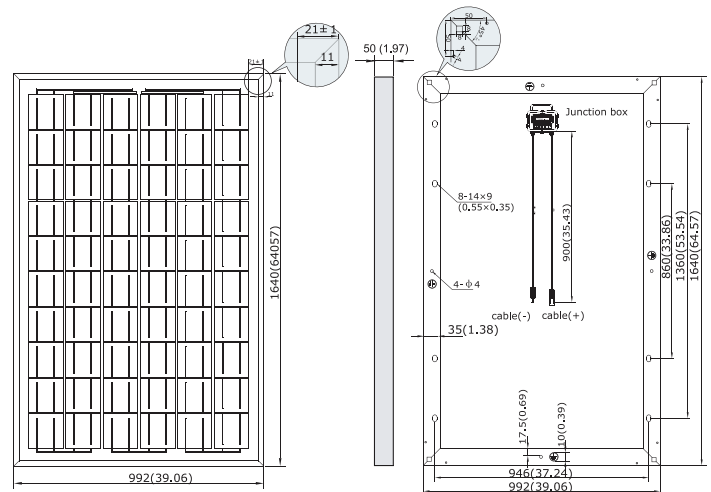
MECHANICAL SPECIFICATIONS

Cell type	156mm x 156mm
Number of cells	60 cells in series
Weight	19.93 kg (43.94 lbs)
Dimensions	1640x992x50 mm (64.57x39.06x1.97 inch)
Max Load	5400Pascals (112 lb/ft ²)

TEMPERATURE COEFFICIENT

Temp. Coeff. of Isc (TK Isc)	0.065 %/°C
Temp. Coeff. of Voc (TK Voc)	-0.346 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/°C

PHYSICAL CHARACTERISTICS Unit: mm (inch)



ELECTRICAL CHARACTERISTICS

