

DM-230M2-30

230W Poly Solar Module

DATA SHEET

Key Features

- Module contains 60 series connected 156 × 156 mm poly-crystalline silicon solar cells with 16% efficiency
- Designed to accommodate residential or commercial grid connected application
- Power tolerance of -0/+3% guaranteed no power below nameplate
- Advanced processing technology and automated production facilities with high quality standards
- 50mm thick aluminum anodized frame in black finish
- High transmission, low iron tempered glass ensures 5400pa load
- ISO 9001: 2000 (Quality Management System) certified
- UL 1703, IEC 61215 and TUV certification
- 6-year workmanship, 90% after 12-year and 80% after 25-year power warranty

Electrical Specifications at STC

1000W/m², 25°C, AM1.5

Typical Power	230 W
Maximum Power	241.5 W
Voltage at Typical Power	30.3 V
Current at Typical Power	7.6 A
Open Circuit Voltage	37.0 V
Short Circuit Current	8.2 A

Mechanical Specifications

	Metric	English
Length	1640 mm	64.57 in
Width	992 mm	39.06 in
Depth	50 mm	1.97 in
Weight	19.6 kg	43.12 lbs



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Temperature Sensitivities For Nominal 230 watt Module:

Temperature Coefficient of Pmax: -0.48% /°C

Temperature Coefficient of Voc : -0.34%/°C

Temperature Coefficient of Isc: 0.02%/°C

Normal Operating Cell Temperature: $47 \pm 2^\circ\text{C}$

Qualification Test Parameters:

Humidity Freeze, Damp Heat: 85%RH, 1000hrs

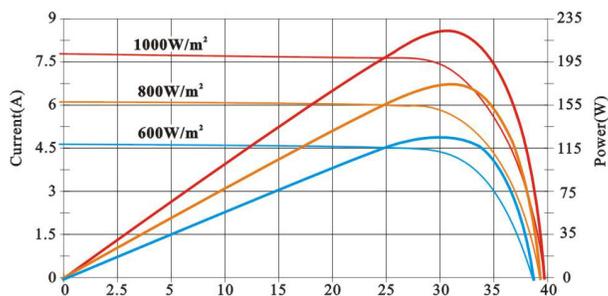
Temperature Cycling: -40°C to +90°C, 200 cycles

Electrical Isolation: 3000 Vdc

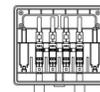
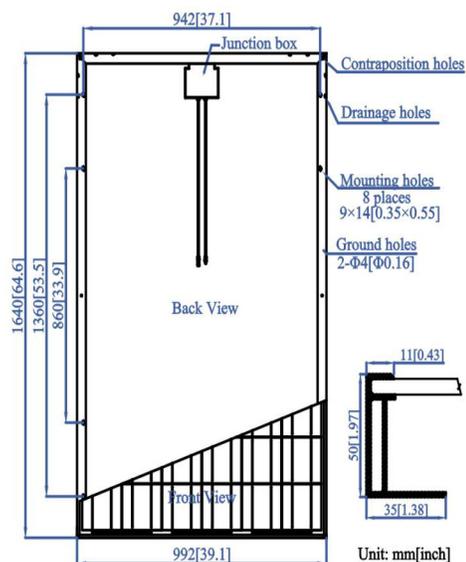
Static Load front and back: 5,400 Pa

Hailstone Impact: 25mm steel ball at 23m/s

I - V Curves



Module Diagram



INSIDE J/BOX
THREE (3) DIODES
PROTECT EACH
1/3 OF MODULE

JUNCTION BOX

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