

DM-280M2-36

280W Poly Solar Module

DATA SHEET

Key Features

- Module contains 72 series connected 156 × 156 mm poly-crystalline silicon solar cells with 16.2% 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 | 280 W |
| Maximum Power | 294 W |
| Voltage at Typical Power | 36.4 V |
| Current at Typical Power | 7.7 A |
| Open Circuit Voltage | 44.5 V |
| Short Circuit Current | 8.28 A |

Mechanical Specifications

| | Metric | English |
|--------|---------|-----------|
| Length | 1956 mm | 77.01 in |
| Width | 992 mm | 39.06 in |
| Depth | 50 mm | 1.97 in |
| Weight | 23.2 kg | 51.04 lbs |



DMSOLAR, LLC
8076 NW 111th Ter
Parkland, FL 33076
Tel: 1-800-422-2088
www.dmsolar.com

DM-280M2-36

280W Poly Solar Module

DATA SHEET

Temperature Sensitivities For Nominal 280 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

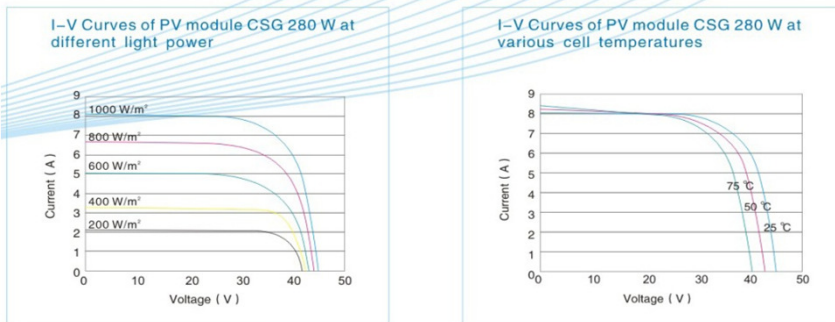
Temperature Cycling: -40°C to +90°C, 200 cycles

Electrical Isolation: 3000 Vdc

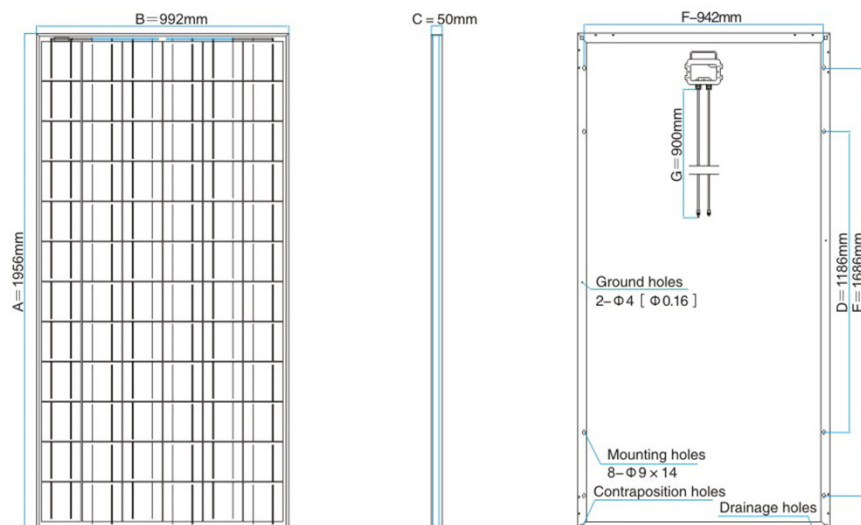
Static Load front and back: 5,400 Pa

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

I - V Curves



Module Diagram



DMSOLAR, LLC

8076 NW 111th Ter

Parkland, FL 33076

Tel: 1-800-422-2088

www.dmsolar.com

