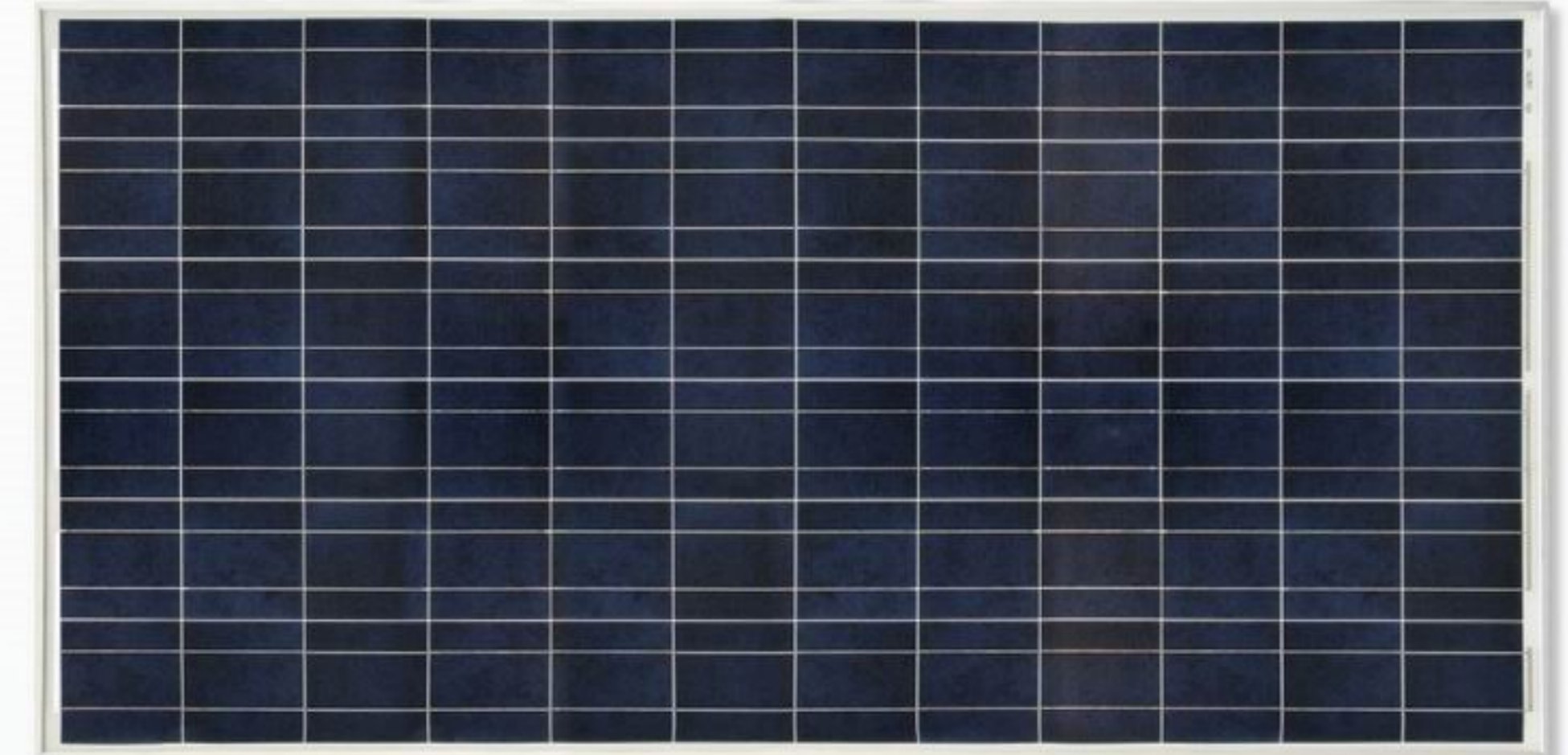


# SUNGEN Polycrystalline Solar Modules

» SGM-P Series 225W/230W/235W/270W/280W/285W



Product warranty: Free from defects in material and workmanship for 5 years.  
 Power warranty: Maintain more than 90% minimum rated power for 10 years.  
 Maintain more than 80% minimum rated power for 25 years.



## Specifications

| Model                            | SGM-225P  | SGM-230P | SGM-235P | SGM-270P  | SGM-280P | SGM-285P |
|----------------------------------|---|----------|----------|---|----------|----------|
| Voltage at maximum power (Vpmax) | 29.5V   | 30.0V    | 30.0V    | 36.0V   | 36.0V    | 36.0V    |
| Current at maximum power (Ipmax) | 7.63A   | 7.67A    | 7.83A    | 7.50A   | 7.78A    | 7.92A    |
| Open-circuit Voltage (Voc)       | 35.4V   | 36.0V    | 36.0V    | 43.2V   | 43.2V    | 43.8V    |
| Short-circuit Current (Isc)      | 8.55A   | 8.59A    | 8.77A    | 8.31A   | 8.41A    | 8.50A    |
| Maximum power (Pmax)             | 225W  | 230W     | 235W     | 270W  | 280W     | 285W     |
| Module Efficiency ( $\eta$ )     | 13.75%  | 14.05%   | 14.36%   | 13.91%  | 14.42%   | 14.68%   |
| No.of Cells                      | 60(10 x 6)  |          |          | 72(12 x 6)  |          |          |
| Weight                           | 19.5 kg (43.0 lbs)  |          |          | 22.5 kg (49.6 lbs)  |          |          |
| Dimension                        | 1650mm x 992mm x 40mm<br>(64.96inches x 39.06inches x 1.57inches) |          |          | 1957mm x 992mm x 40mm<br>(77.05inches x 39.06inches x 1.57inches) |          |          |
| Temperature Coefficient of Pm    |   |          |          | -0.43%/K  |          |          |
| Temperature Coefficient of Voc   |   |          |          | -0.31%/K  |          |          |
| Temperature Coefficient of Isc   |   |          |          | 0.04%/K   |          |          |
| Tolerance                        |   |          |          | 0 to +3%  |          |          |
| Cell                             |   |          |          | 156mm x 156mm (6.14inches x 6.14inches)                           |          |          |
| NOCT                             |   |          |          | 44.2°C +/- 2°C (111.6°F +/- 3.6°F)                                |          |          |
| Operating Temperature            |   |          |          | -40°C to +85°C (-40°F to +185°F)                                  |          |          |
| Maximum System Voltage           |   |          |          | 1000VDC (TÜV-EN/IEC61215) / 600VDC(UL)                            |          |          |

The electrical data applied under standard test conditions (STC): irradiance of 1000 W/m<sup>2</sup> with an AM1.5 spectrum at a cell temperature of 25°C.

Add: Units 1-7, 6/F Metro Loft, 38 Kwai Hei Street, Kwai Chung, N.T. HONG KONG  
 Tel.: +852.3583.5286 Fax: +852.3106.2801 E-mail: GreenEnergy@SUNGEN.com

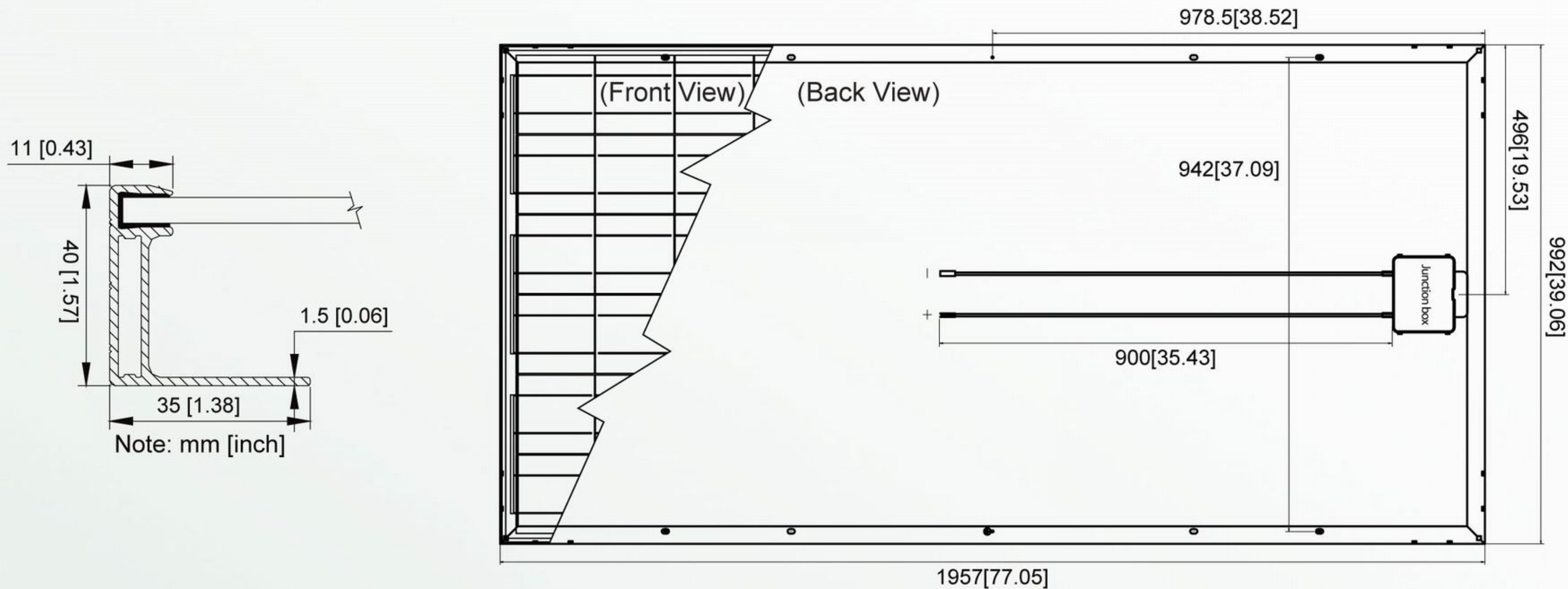


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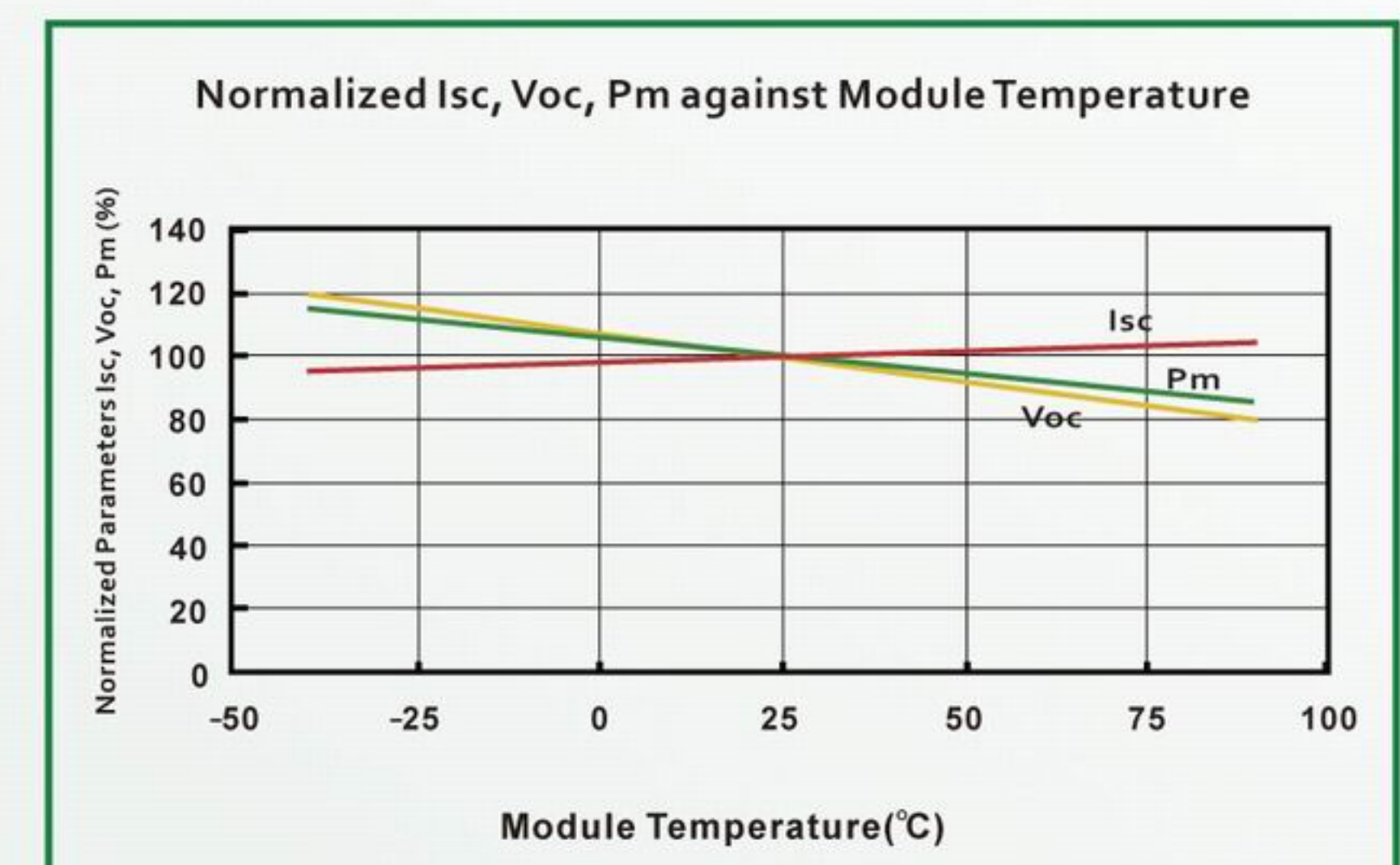
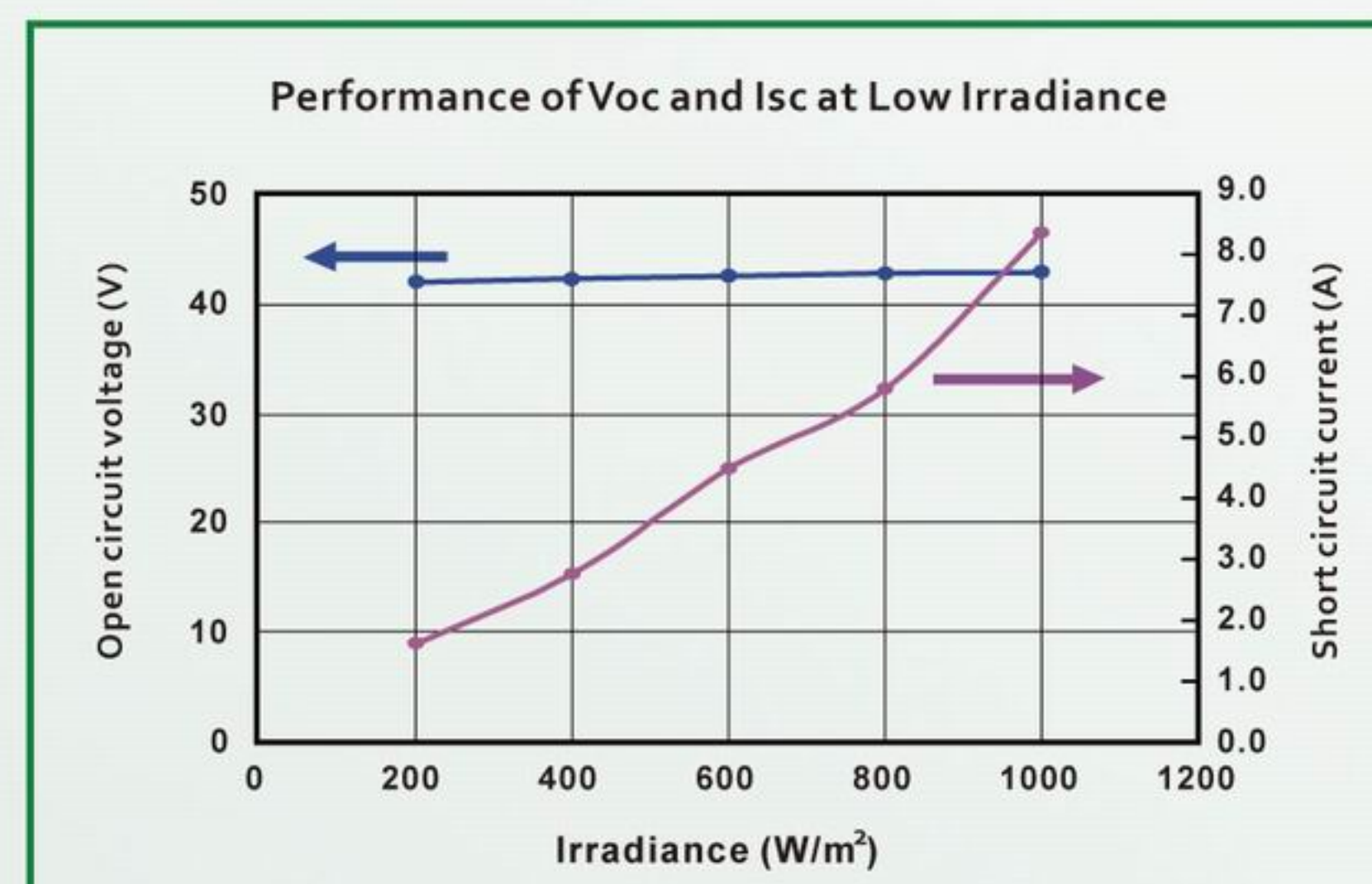
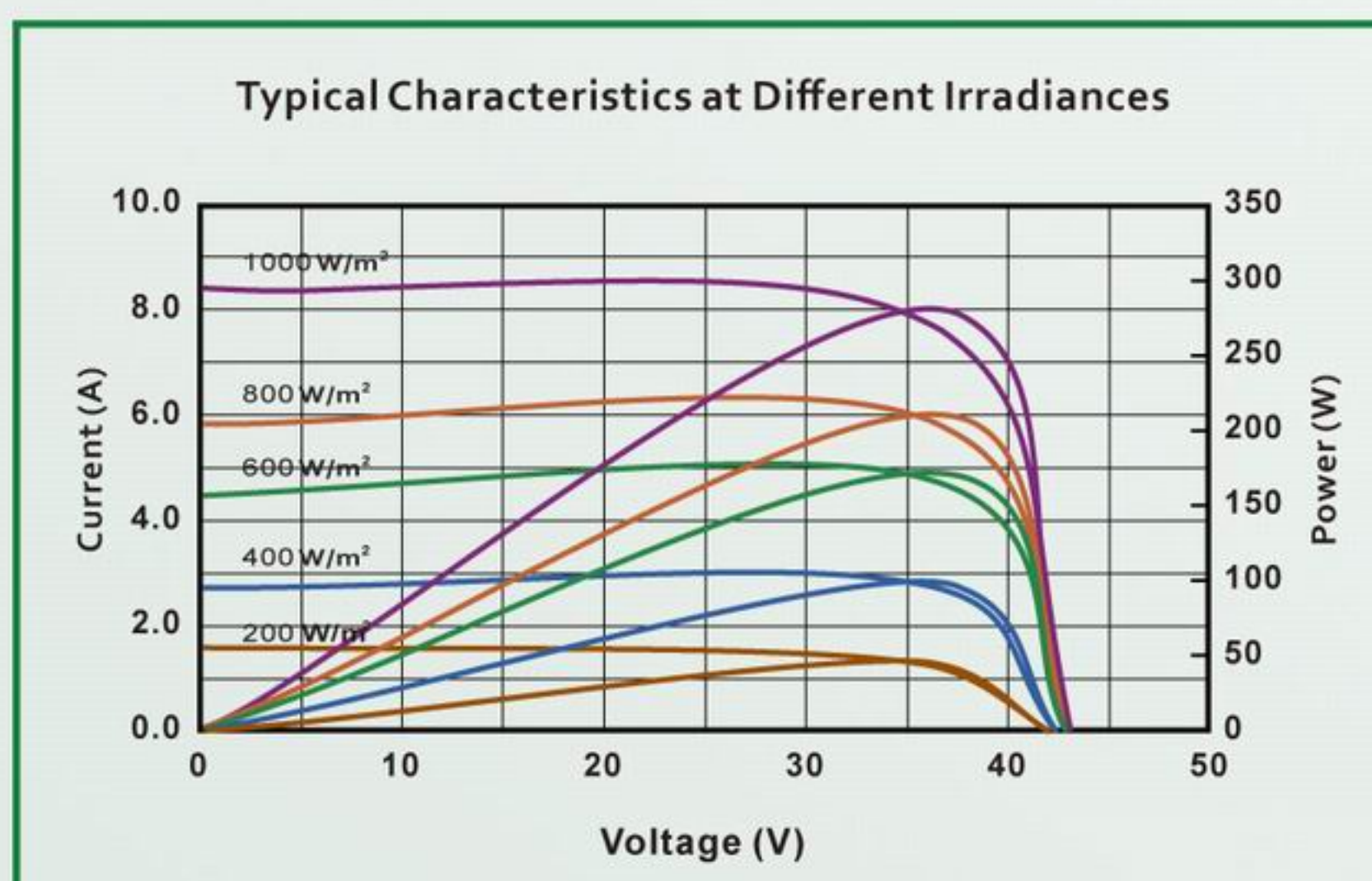
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# SUNGEN Polycrystalline Solar Modules

» SGM-P Series 225W/230W/235W/270W/280W/285W



## Characteristic Curves(SGM-280P)



SUNGEN offers a range of small, medium and large polycrystalline solar modules optimized for your needs. For more information, please contact SUNGEN team or visit [www.sungen.com](http://www.sungen.com).

Design and specifications are subject to change without notice.



[www.SUNGEN.com](http://www.SUNGEN.com)