SF260 | Poly

Hanwha Solar



Five Key Features

- Guaranteed quality: 12 year product warranty,
 25 year performance warranty *
- Predictable output: Positive power sorting of 0 to + 5 W
- 3 Innovative solutions: Anti-reflecting coating for high sunlight absorption
- 4 Robust design: Module certified to withstand high snow loads, up to 5.4 kN/m² **
- 5 Long term responsibility: Free module recycling in PV Cycle member countries

* Please refer to Hanwha SolarOne Co., Ltd. Product Warranty for details. ** Please refer to Hanwha SolarOne Co., Ltd. module Installation Guide.

Quality and Environmental Certificates

- ISO 9001 quality standards and ISO 14001 environmental standards
- OHSAS 18001 occupational health and safety standards
- IEC 61215 and IEC 61730 Class A certifications
- Conformity to CE



About Hanwha SolarOne Co., Ltd.

Hanwha SolarOne Co., Ltd. is a vertically integrated manufacturer of photovoltaic modules designed to meet the needs of the global energy consumer.

- High reliability, guaranteed quality, and excellent cost-efficiency due to vertically integrated production and control of the supply chain;
- Optimization of product performance and manufacturing processes through a strong commitment to research and development;
- Global presence throughout Europe, North America, and Asia, offering regional technical and sales support.



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Electrical Characteristics

Electrical Characteristics at Standard Test Conditions (STC)

Power Class	270 W	275 W	280 W	285 W	290 W	295 W
Maximum Power (P _{max})	270 W	275 W	280 W	285 W	290 W	295 W
Open Circuit Voltage (V _{oc})	44.0 V	44.1 V	44.3 V	44.5 V	44.7 V	44.9 V
Short Circuit Current (I _{sc})	8.20 A	8.35 A	8.40 A	8.45 A	8.50 A	8.55 A
Voltage at Maximum Power (V _{mpp})	36.0 V	36.1 V	36.1 V	36.2 V	36.3 V	36.4 V
Current at Maximum Power (Impp)	7.50 A	7.62 A	7.76 A	7.87 A	7.99 A	8.11 A
Module Efficiency (%)	13.7 %	14.0 %	14.3 %	14.5 %	14.7 %	15.0 %
Cell Efficiency (%)	15.5 %	15.8 %	16.0 %	16.2 %	16.5 %	16.8 %

 $P_{max}V_{ocr}I_{sc}V_{mppr}$ and I_{mpp} tested at STC defined as irradiance of 1000 W/m² at AM 1.5 solar spectrum and temperature 25 ± 2 °C. Electrical Characteristics: measurement tolerance of ± 3 %.

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Power Class	270 W	275 W	280 W	285 W	290 W	295 W
Maximum Power (P _{max})	197 W	200 W	204 W	208 W	211 W	215 W
Open Circuit Voltage (V _{oc})	40.5 V	40.6 V	40.8 V	40.9 V	41.1 V	41.3 V
Short Circuit Current (I _{sc})	6.63 A	6.76 A	6.80 A	6.84 A	6.88 A	6.92 A
Voltage at Maximum Power (V _{mpp})	32.7 V	32.8 V	32.9 V	33.0 V	33.1 V	33.2 V
Current at Maximum Power (I _{mpp})	6.00 A	6.10 A	6.21 A	6.30 A	6.39 A	6.49 A
Module Efficiency (%)	12.5 %	12.7 %	13.0 %	13.2 %	13.4 %	13.7 %
Cell Efficiency (%)	15.5 %	15.8 %	16.0 %	16.2 %	16.5 %	16.8 %

 P_{maxr} V_{cor} I_{scr} V_{mpp}, and I_{mpp} tested at NOCT defined as irradiance of 800 W/m²; wind speed 1 m/s. Electrical Characteristics: measurement tolerance of ± 3 %.

Temperature Characteristics

Normal Operating Cell	45 °C ± 3 °C
Temperature (NOCT)	
Temperature Coefficients of P	- 0.45 %/°C
Temperature Coefficients of V	- 0.32 %/°C
Temperature Coefficients of I	+ 0.04 %/°C

Maximum Ratings

Maximum System Voltage	1000 V (IEC)
Series Fuse Rating	15 A
Maximum Reverse Current	Series fuse rating multiplied by 1.35

Mechanical Characteristics

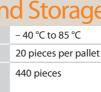
Dimensions	1966 mm \times 1000 mm \times 50 mm
Weight	26 kg
Frame	Aluminum alloy
Front	Tempered glass
Encapsulant	EVA
Back Cover	Composite sheet
Cell Technology	Polycrystalline
Cell Size	156 mm × 156 mm
Number of Cells (Pieces)	72 (6 × 12)
Junction Box	Protection class IP65 with bypass-diode
Output Cables	Solar cable: 4 mm ² ; length 1200 mm
Connector	Linyang LY0706-2

System Design

Operating Temperature	– 40 °C to 85 °C
Hail Safety Impact Velocity	25 mm at 23 m/s
Fire Safety Classification (IEC 61730)	Class C
Static Load Wind/Snow	2400 Pa/5400 Pa

Packaging and	d Storage
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Storage Temperature Packaging Configuration Loading Capacity (40 ft. HQ Container)



Nomenclature

Full product name: SF260-36-1P*xxx xxx* represents the power class

Performance at Low Irradiance:

The typical relative change in module efficiency at an irradiance of 200 W/m^2 in relation to 1000 W/m^2 (both at 25 °C and AM 1.5 spectrum) is less than 5 %.

