



Five Key Features

- 1 Guaranteed quality: 12 year product warranty, 25 year performance warranty *
- 2 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.

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 (I_{mpp})	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_{oc} , I_{sc} , V_{mpp} 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 </tr <tr> <td>Module Efficiency (%)</td> <td>12.5 %</td> <td>12.7 %</td> <td>13.0 %</td> <td>13.2 %</td> <td>13.4 %</td> <td>13.7 %</td> </tr> <tr> <td>Cell Efficiency (%)</td> <td>15.5 %</td> <td>15.8 %</td> <td>16.0 %</td> <td>16.2 %</td> <td>16.5 %</td> <td>16.8 %</td> </tr>	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 %
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_{max} , V_{oc} , I_{sc} , 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 Temperature (NOCT)	45 °C ± 3 °C
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 × 1000 mm × 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 IP67 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 Storage

Storage Temperature	- 40 °C to 85 °C
Packaging Configuration	20 pieces per pallet
Loading Capacity (40 ft. HQ Container)	440 pieces

Nomenclature

Full product name:

SF260-36-1PxxxL

xxx represents the power class

Performance at Low Irradiance:

The typical relative change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and AM 1.5 spectrum) is less than 5 %.

