

Hanwha Solar is a brand of Hanwha Q CELLS - the world's largest solar cell producer and a manufacturer with an unmatched passion for research. Hanwha Q CELLS is backed by the strength and resources of Korea's Hanwha Group a 'FORTUNE® Global 500 Company' with a diversified business portfolio, founded in 1952.



12 YEAR PRODUCT WARRANTY
LINEAR-PERFORMANCE WARRANTY 82% / 25 YEARS.



NO. 1 LARGEST SOLAR CELL MANUFACTURER



GLOBAL R&D NETWORK



TIER 1 BLOOMBERG RATING



A LOCAL TEAM



THE SAFEST WARRANTY AVAILABLE
BACKED BY THE HANWHA GROUP

SUPERIOR YIELD



HIGH POWER OUTPUT

thanks to advanced four-busbar technology.

LONG TERM DURABILITY



CERTIFIED WIND RATING

withstands 4000 Pa wind loads.



OUTSTANDING PERFORMANCE

in real world conditions such as in low light and high temperatures.



CERTIFIED RESISTANCE

against PID effects.



ANTI REFLECTIVE GLASS

with hydrophobic surface encourages sunlight absorption & self-cleaning.



CERTIFIED RESISTANCE

in harsh environments (salt mist, ammonia corrosion).



HSL 60S POLY

Electrical Characteristics at Standard Test Conditions (STC)

Module type	HSL 60 Poly: HSL60P6-PC-1-xxx (xxx = power class)		
Power Class	260 W	265 W	270 W
Maximum Power (P_{max})	260 W	265 W	270 W
Open Circuit Voltage (V_{oc})	38.1 V	38.3 V	38.5 V
Short Circuit Current (I_{sc})	8.98 A	9.12 A	9.22 A
Voltage at Maximum Power (V_{mpp})	30.9 V	31.1 V	31.2 V
Current at Maximum Power (I_{mpp})	8.42 A	8.53 A	8.66 A
Module Efficiency (%)	15.6 %	15.9 %	16.2 %

STC: Irradiance at 1000 W/m² – Air mass 1.5 – Cell temperature at 25±2° C. Measurement tolerance P_{max} : ±3%. Positive power sorting of module power class: 0 to + 5 W. Efficiency at 200 W/m² in relation to 1000 W/m² is at least 97% of STC efficiency.

Electrical Characteristics at NOCT

NOCT = Nominal Operating Cell Temperature

Power Class	260 W	265 W	270 W
Maximum Power (P_{max})	191 W	196 W	199 W
Open Circuit Voltage (V_{oc})	35.7 V	35.9 V	36.1 V
Short Circuit Current (I_{sc})	7.26 A	7.37 A	7.45 A
Voltage at Maximum Power (V_{mpp})	28.4 V	28.6 V	28.7 V
Current at Maximum Power (I_{mpp})	6.73 A	6.84 A	6.92 A
Module Efficiency (%)	14.3 %	14.7 %	14.9 %

NOCT: Irradiance at 800 W/m² – Ambient temperature of 20° C – Wind speed at 1 m/s. Measurement tolerance P_{max} : ± 3%.

Temperature Characteristics

Normal Operating Cell Temperature (NOCT)	45°C + / - 3°C
Temperature Coefficients of P_{max}	-0.41 % / °C
Temperature Coefficients of V_{oc}	-0.31 % / °C
Temperature Coefficients of I_{sc}	+0.055% / °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	1670mm × 1000mm × 32 mm
Weight	18.5±0.5kg
Frame	Aluminum-alloy
Front	3.2mm tempered glass with anti reflective coating
Encapsulant	EVA
Back Cover	Composite sheet
Cell Technology	4 busbar Polycrystalline
Cell Size	156 mm × 156 mm (6 in × 6 in)
Number of Cells (Pieces)	60 (6 × 10)
Junction Box	Protection class IP 67
Output Cables	Solar cable: 4 mm ² ; length: 1000 mm
Connector	H4

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	4000/5400Pa

Packaging and Storage

Storage Temperature	- 40 °C to 85 °C
Packaging Configuration	32 pieces per pallet
Loading Capacity (40 ft. HQ Container)	832 pieces

STAYING POWER

- Withstands 5400 Pa (550 kg/m²) snow and 4000 Pa (210 km/h) wind loads*
- PID-resistance verified by TÜV Rheinland**
- 12-year product warranty, 25-year linear performance warranty***

* See the Hanwha Solar Installation Guide

** Test conditions: module negatively charged with 1000 V at 25° C for 168 hours with al-foil coverage

*** See warranty terms

PROVEN QUALITY

Hanwha Solar products comply with international standards; certificates include:

- IEC 61215 (Design approval)
- IEC 61730 (Safety approval)
- IEC 61701 (Salt-mist resistance)
- IEC 62716 (Ammonia resistance)
- EN 13501 (Fire classification)
- Conformity to CE
- MCS, SII approved
- ISO 9001 quality standards and ISO 14001 environmental standards
- OHSAS 18001 occupational health and safety standards



Please contact Hanwha Solar for a full list of certifications.

Various Irradiance Levels

