

HSL 72 S

Superior yield, cost efficient

NOMENCLATURE

HSL72P6-PC-1-xxx
xxx = power class

HIGH YIELD AND OUTSTANDING PROTECTION AGAINST DEGRADATION EFFECTS ENABLE THE 72-CELL POLY MODULE TO OFFER RELIABLE RETURNS.

Superior yield

High power output thanks to advanced four-busbar technology

Outstanding performance under real-life conditions

Double current sorting available

Long-Term durability

Verified resistance against PID effects verified by TÜV SÜD*

Withstands 5400Pa snow and 4000Pa wind loads**

Certified protection in harsh environments
(salt-mist, ammonia corrosion)

Guaranteed Quality: 12 Year Workmanship
and 25 Years Linear Performance Warranty***

Cost efficiency

Efficient Logistics: Compact Design, Efficient
Shipping, Easy Handling

* PID test according to IEC62804

** See the Hanwha Solar Installation Guide

*** Please refer to Hanwha Solar Product Warranty for details



ABOUT HANWHA SOLAR

Hanwha Solar is a brand of Hanwha Q CELLS, the world's largest solar cell manufacturer and one of the largest photovoltaic module manufacturers.



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| ELECTRICAL CHARACTERISTICS | | | | | | | | |
|---|---|----------------------|-------|-------|-------|-------|-------|-------|
| POWER CLASS | | | 295 | 300 | 305 | 310 | 315 | 320 |
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W) | | | | | | | | |
| Minimum | Power at MPP ² | P _{MPP} [W] | 295 | 300 | 305 | 310 | 315 | 320 |
| | Short Circuit Current* | I _{SC} [A] | 8.60 | 8.70 | 8.81 | 8.91 | 9.02 | 9.10 |
| | Open Circuit Voltage* | V _{OC} [V] | 44.6 | 44.8 | 45.0 | 45.1 | 45.3 | 45.6 |
| | Current at MPP* | I _{MPP} [A] | 8.11 | 8.20 | 8.29 | 8.36 | 8.45 | 8.52 |
| | Voltage at MPP* | V _{MPP} [V] | 36.4 | 36.6 | 36.8 | 37.1 | 37.3 | 37.6 |
| | Efficiency ² | η [%] | ≥15.1 | ≥15.3 | ≥15.6 | ≥15.8 | ≥16.1 | ≥16.3 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³ | | | | | | | | |
| Minimum | Power at MPP ² | P _{MPP} [W] | 217 | 221 | 224 | 228 | 234 | 238 |
| | Short Circuit Current* | I _{SC} [A] | 6.95 | 7.03 | 7.12 | 7.20 | 7.29 | 7.35 |
| | Open Circuit Voltage* | V _{OC} [V] | 41.8 | 42.0 | 42.2 | 42.3 | 42.4 | 42.6 |
| | Current at MPP* | I _{MPP} [A] | 6.48 | 6.58 | 6.63 | 6.69 | 6.81 | 6.88 |
| | Voltage at MPP* | V _{MPP} [V] | 33.5 | 33.6 | 33.8 | 34.1 | 34.4 | 34.6 |
| | ¹ 1000 W/m ² , 25 °C, spectrum AM 1.5 G ² Measurement tolerances STC ± 3 %; NOC ± 5 % ³ 800 W/m ² , NOCT, spectrum AM 1.5 G *typical values, actual values may differ | | | | | | | |

| MECHANICAL CHARACTERISTICS | |
|----------------------------|---|
| Dimensions | 1972 mm × 992 mm × 40 mm (including frame) |
| Weight | 23 ± 0.5 kg |
| Front Cover | 3.2 mm tempered anti-reflection glass |
| Backsheet | Multi-layer composite sheet |
| Frame | Anodised aluminium |
| Cell configuration | 6 × 12 polycrystalline solar cells, 156 mm × 156 mm |
| Cell technology | 4 busbar |
| Junction Box | Protection class IP67; 3 sets of diodes |
| Output Cable | 4 mm ² Solar cable; (+) ≥ 1200 mm, (-) ≥ 1200 mm |
| Connector | Intermateable connector with H4, MC4 |
| Packaging | 25 pieces/pallet, 550 pieces/container (40 ft. HQ) |

| SYSTEM DESIGN | |
|-----------------------------|---------------------------------------|
| Static load wind / snow | 4000 Pa / 5400 Pa |
| Hail safety impact velocity | 25 mm at 23 m/s |
| Operation temperature | -40 °C to 85 °C |
| NOCT | 45 ± 3 °C |
| Maximum system voltage | 1000 V (IEC) |
| Series fuse rating | 15 A |
| Maximum reverse current | Series fuse rating multiplied by 1.35 |
| Fire safety classification | Class C |
| Safety class | II |

PERFORMANCE AT LOW IRRADIANCE

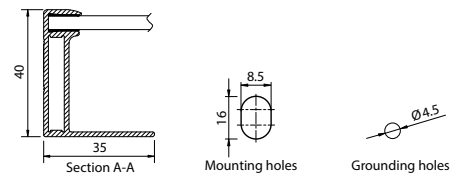
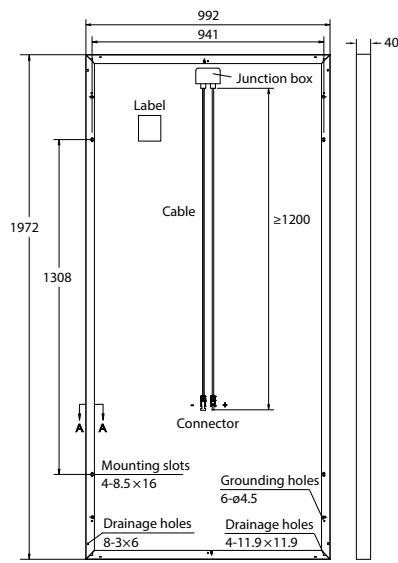
The typical efficiency at 200 W/m² in relation to 1000 W/m², (25 °C, AM 1.5) is at least 97 % of STC efficiency.

TEMPERATURE CHARACTERISTICS

| | |
|-------------------------------|-------------|
| Temperature coefficients of P | -0.41 %/°C |
| Temperature coefficients of V | -0.31 %/°C |
| Temperature coefficients of I | +0.055 %/°C |

QUALIFICATIONS AND CERTIFICATES

IEC 61215, IEC 61730, IEC 61701, IEC 62716, EN 13501, IEC62804, IEC60068-2-68, Reach compliance, Conformity to CE, SIL approved, Application Class A



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