

HSL 72K

Superior yield, cost efficient

NOMENCLATURE

HSL72P6-PC-3-xxxT

xxx = power class

C94201111227130506

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

Superior yield

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**

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]	8.92	8.96	9.01	9.06	9.12	9.17
	Open Circuit Voltage*	V _{OC}	[V]	44.5	44.7	44.8	45.1	45.4	45.7
	Current at MPP*	I _{MPP}	[A]	8.09	8.16	8.20	8.25	8.32	8.38
	Voltage at MPP*	V _{MPP}	[V]	36.5	36.8	37.2	37.6	37.9	38.2
	Efficiency ²	η	[%]	≥15.0	≥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]	216	220	224	227	231	234
	Short Circuit Current*	I _{SC}	[A]	7.20	7.23	7.28	7.32	7.36	7.40
	Open Circuit Voltage*	V _{OC}	[V]	41.5	41.7	41.8	42.1	42.4	42.6
	Current at MPP*	I _{MPP}	[A]	6.40	6.46	6.49	6.53	6.59	6.63
	Voltage at MPP*	V _{MPP}	[V]	33.8	34.1	34.6	34.8	35.1	35.4
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	

¹1000 W/m², 25 °C, spectrum AM 1.5 G

²Measurement tolerances STC ± 3 %; NOC ± 5 %

³800 W/m², NOCT, spectrum AM 1.5 G

*typical values, actual values may differ

MECHANICAL CHARACTERISTICS

Dimensions	77.6 in × 39.1 in × 1.57 in (including frame) (1972 mm × 992 mm × 40 mm)
Weight	50.7 lbs (23 ± 0.5 kg)
Front Cover	0.13 in (3.2 mm) tempered anti-reflection glass
Backsheet	Multi-layer composite sheet
Frame	Anodized aluminium
Cell configuration	6 × 12 polycrystalline solar cells, 156 mm × 156 mm
Cell technology	3BB BSF Cell
Junction Box	Protection class IP67; 3 sets of diodes
Output Cable	4 mm ² Solar cable; (+) ≥ 47.24 in (1200 mm), (-) ≥ 47.24 in (1200 mm)
Connector	Amphenol H4 or H4 intermateable
Packaging	25 pieces / pallet, 550 pieces / container (40 ft. HQ)

SYSTEM DESIGN

Static load wind / snow	4000 Pa / 5400 Pa
Hail safety impact velocity	1.0 in at 23 m/s (25 mm at 23 m/s)
Operation temperature	-40 °F up to +185 °F (-40 °C to 85 °C)
NOCT	113 °F ± 5.4 °F (45 ± 3 °C)
Maximum system voltage	1000 V IEC/UL
Series fuse rating	15 A
Maximum reverse current	Series fuse rating multiplied by 1.35
Fire safety classification	Class C / TYPE 1
Safety class	II

PERFORMANCE AT LOW IRRADIANCE

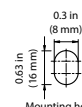
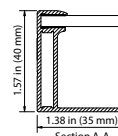
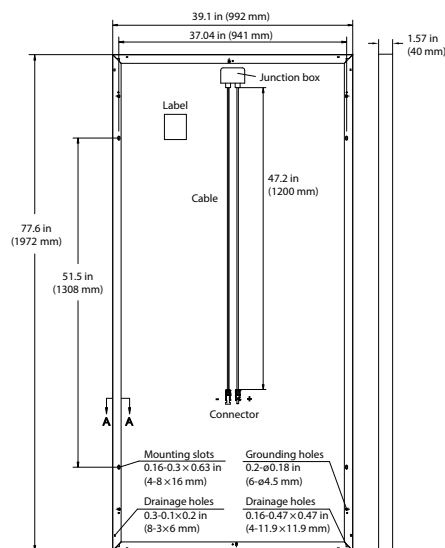
The typical efficiency at 200 W/m² in relation to 1000 W/m², (25 °C, AM 1.5) is at least 97 % of STC efficiency.

TEMPERATURE CHARACTERISTICS

Temperature coefficients of P	-0.42 % / K
Temperature coefficients of V	-0.33 % / K
Temperature coefficients of I	+0.05 % / K

QUALIFICATIONS AND CERTIFICATES

IEC 61215, IEC 61730, IEC 62804, Conformity to CE, Application Class A



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NOTE: Please read the Installation Guide before using the product.
Please visit our website for a complete overview of the Hanwha Solar portfolio.

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