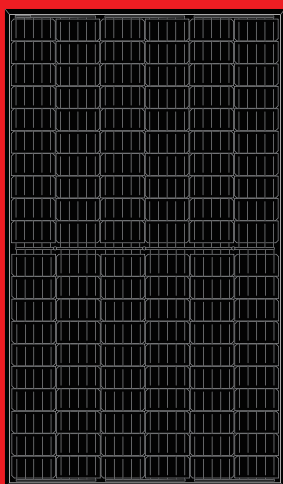


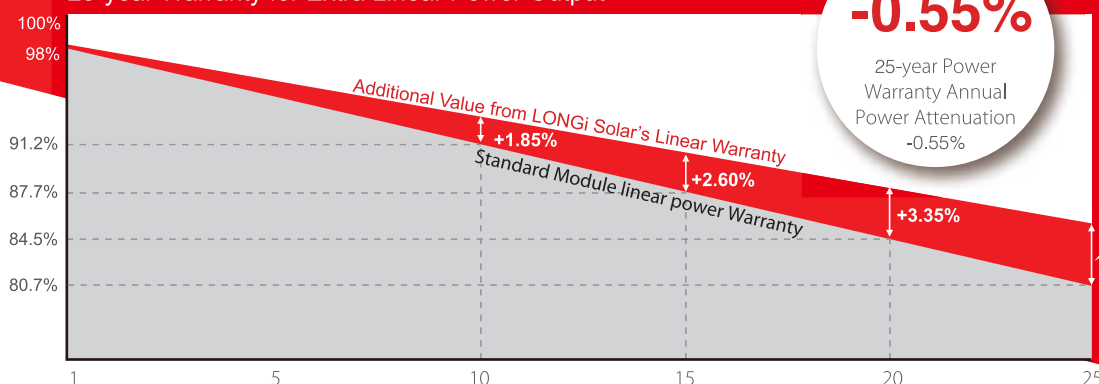
REAL BLACK series



LR6-60HPB 295~315M

**High Efficiency
Low LID Mono PERC with
Half-cut Technology**

10-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety



* Specifications subject to technical changes and tests. LONGi Solar reserves the right of interpretation.

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 19.0%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

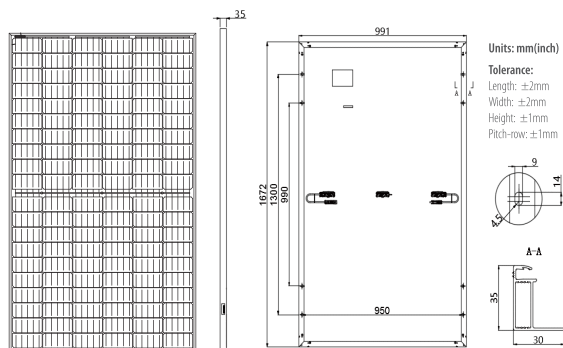
LONGi Solar

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Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi Solar have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

LR6-60HPB 295~315M

Design (mm)



Mechanical Parameters

Cell Orientation: 120 (6×20)

Junction Box: IP67, three diodes

Output Cable: 4mm², 300mm in length

Glass: Single glass
 2.8mm coated tempered glass

Frame: Anodized aluminum alloy frame

Weight: 16.8kg

Dimension: 1672×991×35mm

Packaging: 30pcs per pallet
 180pcs per 20'GP
 780pcs per 40'HC

Operating Parameters

Operational Temperature: -40 °C ~ +85 °C

Power Output Tolerance: 0 ~ +5 W

Voc and Isc Tolerance: $\pm 3\%$

Maximum System Voltage: DC1000V (IEC)

Maximum Series Fuse Rating: 20A

Nominal Operating Cell Temperature: 45 ± 2 °C

Safety Class: Class II

Electrical Characteristics

Test uncertainty for Pmax: $\pm 3\%$

Model Number	LR6-60HPB-295M		LR6-60HPB-300M		LR6-60HPB-305M		LR6-60HPB-310M		LR6-60HPB-315M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	295	218.5	300	222.2	305	225.9	310	229.6	315	233.4
Open Circuit Voltage (Voc/V)	39.6	36.9	39.8	37.1	40.1	37.4	40.3	37.7	40.6	37.9
Short Circuit Current (Isc/A)	9.59	7.73	9.70	7.82	9.78	7.88	9.86	7.94	9.94	8.01
Voltage at Maximum Power (Vmp/V)	32.7	30.2	32.9	30.4	33.1	30.6	33.3	30.8	33.7	31.1
Current at Maximum Power (Imp/A)	9.03	7.24	9.13	7.32	9.21	7.38	9.30	7.46	9.36	7.50
Module Efficiency(%)	17.8		18.1		18.4		18.7		19.0	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc: +0.057%/°C

Temperature Coefficient of Voc: -0.286%/°C

Temperature Coefficient of Pmax: -0.370%/°C

Mechanical Loading

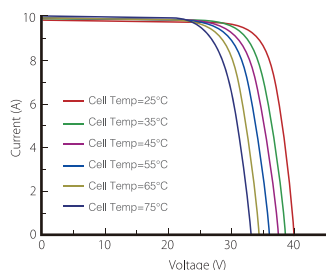
Front Side Maximum Static Loading: 5400Pa

Rear Side Maximum Static Loading: 2400Pa

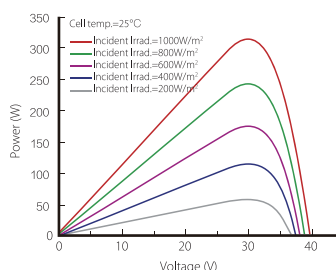
Hailstone Test: 25mm Hailstone at the speed of 23m/s

I-V Curve

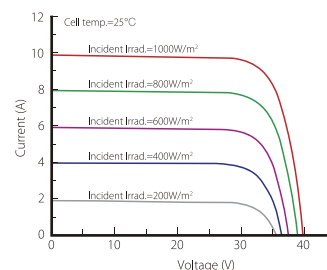
Current-Voltage Curve (LR6-60HPB-310M)



Power-Voltage Curve (LR6-60HPB-310M)



Current-Voltage Curve (LR6-60HPB-310M)



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