

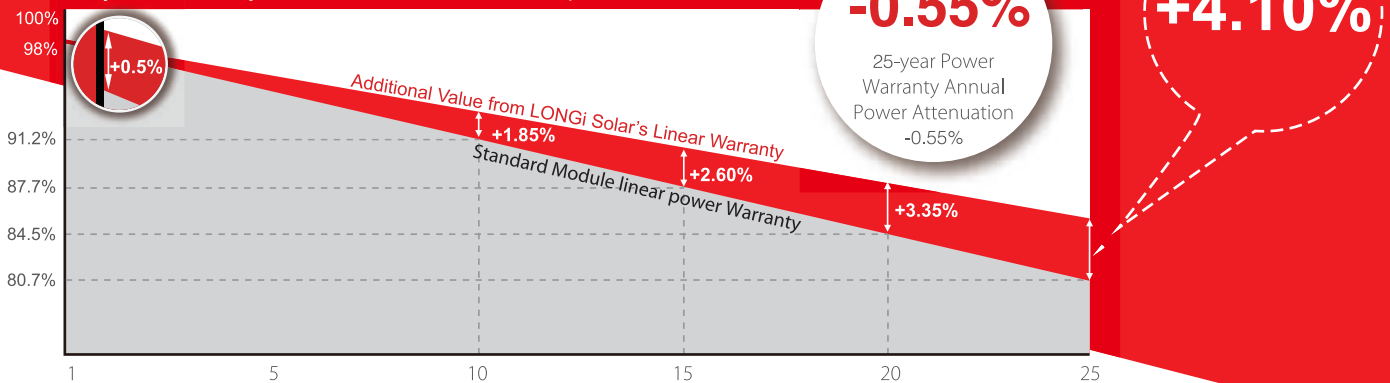
# LR6-60PB 295~315M



## Hi-MO1 High Efficiency Low LID Mono PERC Technology (60C/All Black Module)

*Aesthetic appearance with black frame and  
backsheet, best suited for rooftop installation*

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



### Complete System and Product Certifications

IEC 61215, IEC61730, UL1703  
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 19.3%)

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

**Better energy yield** with excellent low irradiance performance and temperature coefficient

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

**Adaptable to harsh environment:** passed rigorous salt mist and ammonia tests

**Robust frame** (40mm) withstands mechanical loading of 5400Pa for snow load on front and 2400Pa for wind load on rear side

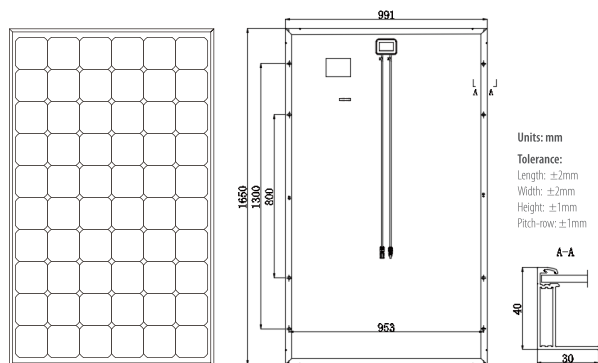
# LONGi Solar

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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.

# LR6-60PB 295~315M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 60 (6×10)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, 1000mm in length  
 Connector: MC4 or MC4 comparable  
 Weight: 18.5kg  
 Dimension: 1650×991×40mm  
 Packaging: 26pcs per pallet

## Operating Parameters

Operational Temperature: -40 °C ~ +85 °C  
 Power Output Tolerance: 0 ~ +5 W  
 Maximum System Voltage: DC1000V (IEC&UL)  
 Maximum Series Fuse Rating: 20A  
 Nominal Operating Cell Temperature: 45±2 °C  
 Application Class: Class A

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

| Model Number                     | LR6-60PB-295M |       | LR6-60PB-300M |       | LR6-60PB-305M |       | LR6-60PB-310M |       | LR6-60PB-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)     | 39.9          | 37.2  | 40.1          | 37.4  | 40.2          | 37.5  | 40.3          | 37.6  | 40.5          | 37.8  |
| Short Circuit Current (Isc/A)    | 9.69          | 7.81  | 9.81          | 7.91  | 9.94          | 8.01  | 9.98          | 8.04  | 10.10         | 8.14  |
| Voltage at Maximum Power (Vmp/V) | 32.6          | 30.1  | 32.8          | 30.3  | 33.0          | 30.5  | 33.2          | 30.7  | 33.4          | 30.9  |
| Current at Maximum Power (Imp/A) | 9.05          | 7.26  | 9.15          | 7.34  | 9.24          | 7.41  | 9.35          | 7.50  | 9.43          | 7.56  |
| Module Efficiency(%)             | 18.0          |       | 18.3          |       | 18.7          |       | 19.0          |       | 19.3          |       |

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/s

## Temperature Ratings ( STC )

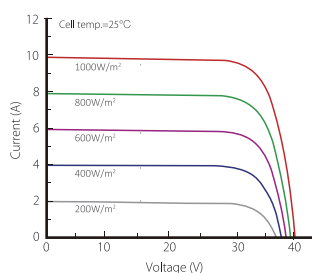
Temperature Coefficient of Isc: +0.057%/°C  
 Temperature Coefficient of Voc: -0.286%/°C  
 Temperature Coefficient of Pmax: -0.370%/°C

## Mechanical Loading

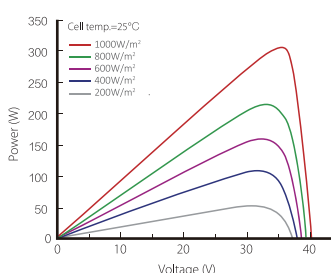
Front Side Maximum Static Loading: 5400Pa  
 Rear Side Maximum Static Loading: 2400Pa  
 Hailstone Test: 25mm Hailstone at the speed of 23m/s

## I-V Curve

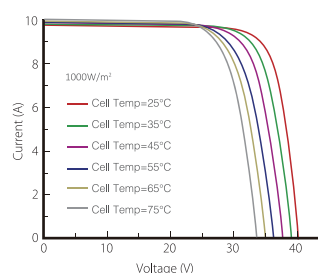
Current-Voltage Curve (LR6-60PB-305M)



Power-Voltage Curve (LR6-60PB-305M)



Current-Voltage Curve (LR6-60PB-305M)



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