

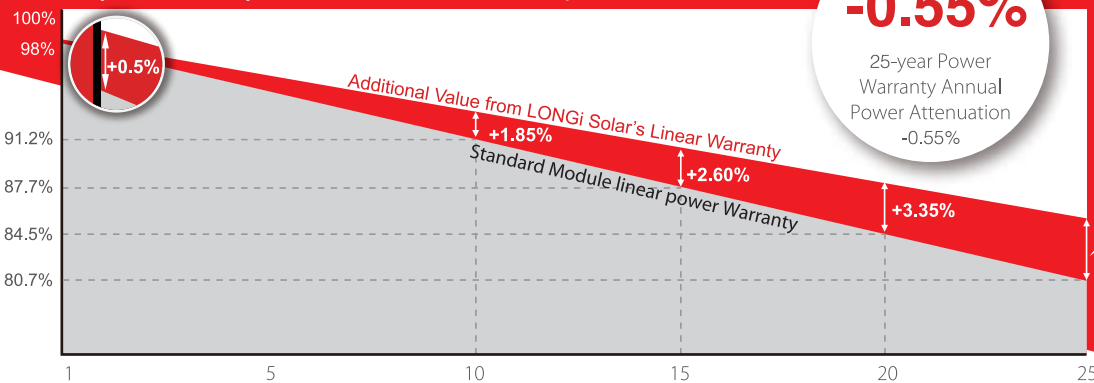
LR6-60PB 285~305M



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



-0.55%

25-year Power
Warranty Annual
Power Attenuation
-0.55%

+4.10%

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 18.7%)

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

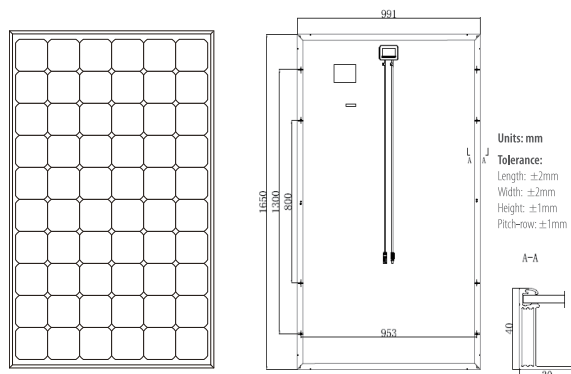
LONGi Solar

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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 285~305M

Design (mm)



Mechanical Parameters

Cell Orientation: 60 (6×10)
 Junction Box: IP67, three diodes
 Output Cable: 4mm², 1000mm in length
 Connector: MC4 or MC4 comparable
 Weight: 18.2kg
 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)
 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-285M | | LR6-60PB-290M | | LR6-60PB-295M | | LR6-60PB-300M | | LR6-60PB-305M | |
|----------------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 285 | 209.5 | 290 | 213.2 | 295 | 216.8 | 300 | 220.5 | 305 | 224.2 |
| Open Circuit Voltage (Voc/V) | 39.5 | 36.5 | 39.7 | 36.7 | 39.9 | 36.9 | 40.1 | 37.1 | 40.2 | 37.2 |
| Short Circuit Current (Isc/A) | 9.46 | 7.62 | 9.58 | 7.72 | 9.69 | 7.81 | 9.81 | 7.91 | 9.94 | 8.01 |
| Voltage at Maximum Power (Vmp/V) | 32.1 | 29.5 | 32.3 | 29.7 | 32.6 | 29.9 | 32.8 | 30.1 | 33.0 | 30.3 |
| Current at Maximum Power (Imp/A) | 8.88 | 7.10 | 8.98 | 7.18 | 9.05 | 7.24 | 9.15 | 7.32 | 9.24 | 7.39 |
| Module Efficiency(%) | 17.4 | | 17.7 | | 18.0 | | 18.3 | | 18.7 | |

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)

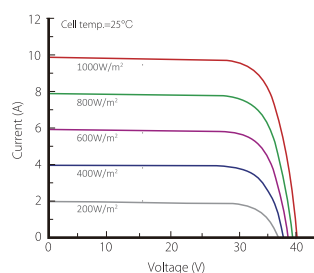
| | |
|---------------------------------|-----------|
| Temperature Coefficient of Isc | +0.057%/C |
| Temperature Coefficient of Voc | -0.286%/C |
| Temperature Coefficient of Pmax | -0.380%/C |

Mechanical Loading

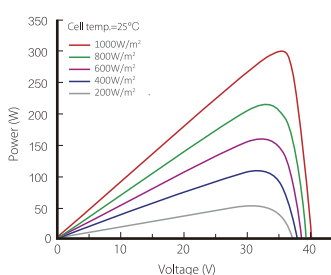
| | |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa |
| Rear Side Maximum Static Loading | 2400Pa |
| Hailstone Test | 25mm Hailstone at the speed of 23m/s |

I-V Curve

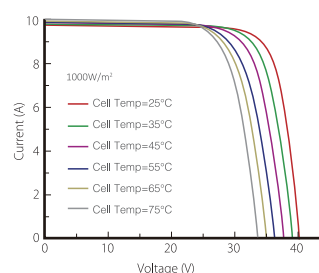
Current-Voltage Curve (LR6-60PB-300M)



Power-Voltage Curve (LR6-60PB-300M)



Current-Voltage Curve (LR6-60PB-300M)



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