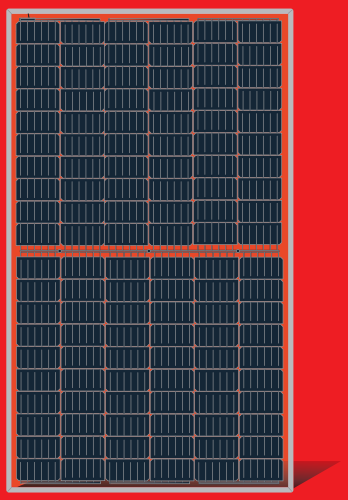
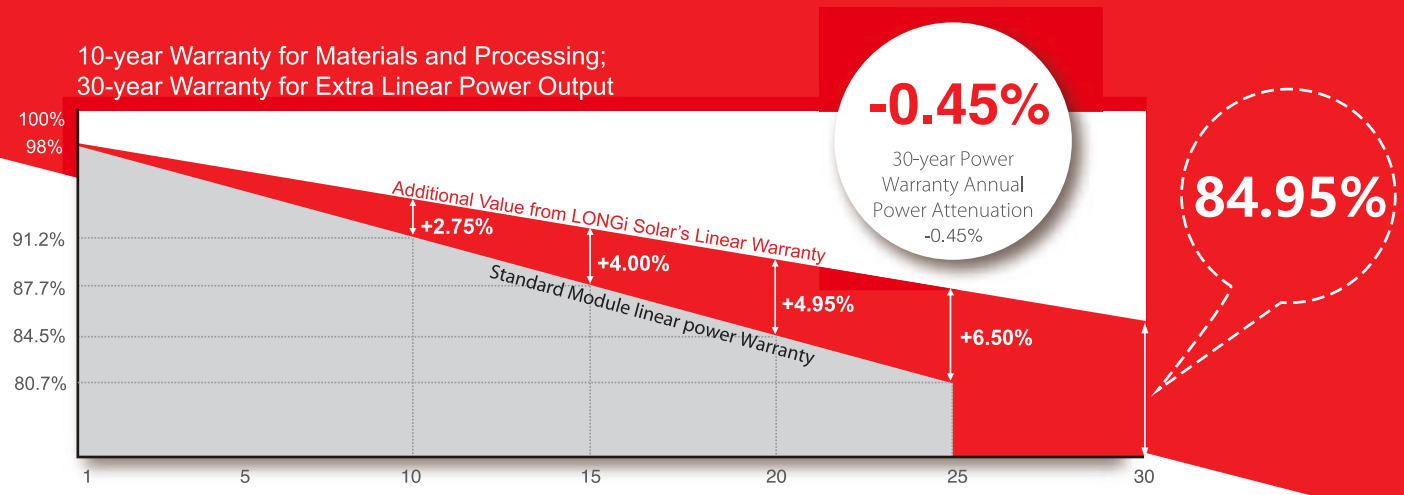
# LR6-60HBD
# 300~325M

Hi-MO 3

## *High Efficiency Low LID Bifacial PERC with Half-cut Technology*






**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.

**Front side performance equivalent to conventional low LID mono PERC:**
- High module conversion efficiency (up to 19.2%)
- Better energy yield with excellent low irradiance performance and temperature coefficient
- First year power degradation <2%

**Bifacial technology** enables additional energy harvesting from rear side (up to 25%)

**Glass/glass lamination** ensures 30 year product lifetime, with annual power degradation < 0.45%, 1500V compatible to reduce BOS cost

**30mm frame design** enables easy installation and robust mechanical strength

**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

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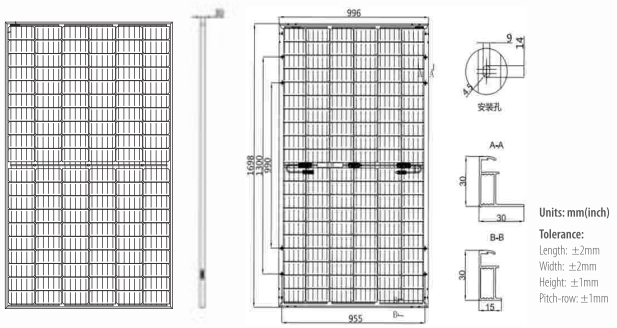
# LR6-60HBD 300~325M

## Design （mm）




## Mechanical Parameters

Cell Orientation: 120（6×20）
Junction Box: IP67, three diodes
Output Cable: 4mm², 300mm in length, length can be customized
Glass: Dual glass
2.0mm tempered glass
Frame: Anodized aluminum alloy frame
Weight: 22.0kg
Dimension: 1698×996×30mm
Packaging: 35pcs per pallet
210pcs per 20'GP
910pcs per 40'HC

## Operating Parameters

Operational Temperature: -40℃~+85℃
Power Output Tolerance: 0~+5 W
Voc and Isc Tolerance: ±3%
Maximum System Voltage: DC1500V (IEC / UL)
Maximum Series Fuse Rating: 20A
Nominal Operating Cell Temperature: 45±2℃
Safety Class: Class II
Fire Rating: UL type 6
Bifaciality: Coating≥75%
Glazing≥70%

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

| Model Number | LR6-60HBD-300M | | LR6-60HBD-305M | | LR6-60HBD-310M | | LR6-60HBD-315M | | LR6-60HBD-320M | | LR6-60HBD-325M | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 300 | 223.1 | 305 | 226.8 | 310 | 230.5 | 315 | 234.2 | 320 | 237.9 | 325 | 241.7 |
| Open Circuit Voltage (Voc/V) | 40.3 | 37.5 | 40.5 | 37.7 | 40.7 | 37.9 | 40.9 | 38.1 | 41.1 | 38.3 | 41.3 | 38.5 |
| Short Circuit Current (Isc/A) | 9.44 | 7.64 | 9.55 | 7.73 | 9.66 | 7.82 | 9.75 | 7.90 | 9.86 | 7.98 | 9.95 | 8.06 |
| Voltage at Maximum Power (Vmp/V) | 33.3 | 30.9 | 33.5 | 31.1 | 33.6 | 31.2 | 33.8 | 31.4 | 34.0 | 31.6 | 34.2 | 31.8 |
| Current at Maximum Power (Imp/A) | 9.01 | 7.22 | 9.12 | 7.30 | 9.23 | 7.39 | 9.32 | 7.46 | 9.42 | 7.54 | 9.51 | 7.62 |
| Module Efficiency(%) | 17.7 | | 18.0 | | 18.3 | | 18.6 | | 18.9 | | 19.2 | |

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

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

Electrical characteristics with different rear side power gain (reference to 310W front)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---|---|---|---|---|---|
| 326 | 40.7 | 10.14 | 33.6 | 9.69 | 5% |
| 341 | 40.7 | 10.62 | 33.6 | 10.15 | 10% |
| 357 | 40.8 | 11.10 | 33.7 | 10.59 | 15% |
| 372 | 40.8 | 11.59 | 33.7 | 11.04 | 20% |
| 388 | 40.8 | 12.07 | 33.7 | 11.51 | 25% |

## Temperature Ratings（STC）

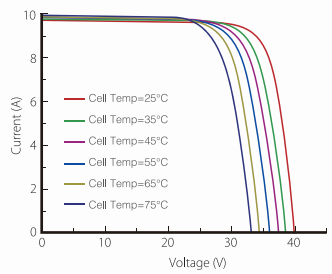
| | |
|---|---|
| **Temperature Coefficient of Isc** | +0.060%/℃ |
| **Temperature Coefficient of Voc** | -0.300%/℃ |
| **Temperature Coefficient of Pmax** | -0.370%/℃ |

## Mechanical Loading

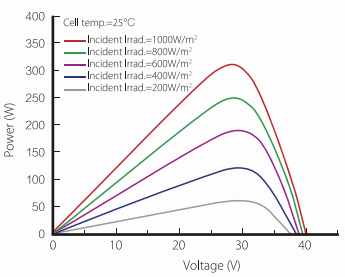
| | |
|---|---|
| **Front Side Maximum Static Loading** | 5400Pa |
| **Rear Side Maximum Static Loading** | 2400Pa |
| **Hailstone Test** | 25mm Hailstone at the speed of 23m/s |

## I-V Curve

**Current-Voltage Curve (LR6-60HBD-310M)**




**Power-Voltage Curve (LR6-60HBD-310M)**

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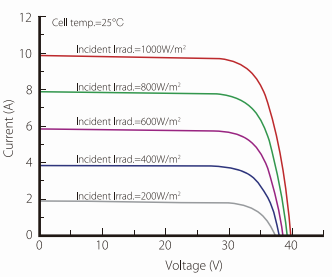


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