LR6–60HBD
300~325M

High Efficiency
Low LID Bifacial PERC with Half-cut Technology

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

-0.45%
30-year Power Warranty Annual Power Attenuation
-0.45%

84.95%

Complete System and Product Certifications
IEC 61215, IEC61730, UL1703
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 | Operating Parameters |

Cell Orientation: 120° (6x20)
 Junction Box: IP67, three diodes
 Output Cable: 4mm², 300mm in length, length can be customized
 Glass: Dual glass
 Frame: Anodized aluminum alloy frame
 Weight: 22.0kg
 Dimension: 1668x996x90mm
 Packaging: 35pcs per pallet
 210pcs per 20GP
 910pcs per 40HC

**Operational Temperature:** 40°C ~ 45°C
**Power Output Tolerance:** D ~ ±5 W
**Voc and Isc Tolerance:** ±3%
**Maximum System Voltage:** DC1500V (EC/UL)
**Maximum Series Fuse Rating:** 20A
**Nominal Operating Cell Temperature:** 45°C ±2°C
**Safety Class:** Class II
**Fire Rating:** UL Type 6
**Bifaciality:** Coating 25%
**Glazing:** 70%

### Electrical Characteristics

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR6-60HBD 300M</th>
<th>LR6-60HBD 305M</th>
<th>LR6-60HBD 310M</th>
<th>LR6-60HBD 315M</th>
<th>LR6-60HBD 320M</th>
<th>LR6-60HBD 325M</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Testing Condition</strong></td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
</tr>
<tr>
<td><strong>Maximum Power (Pmax/W)</strong></td>
<td>303</td>
<td>223.1</td>
<td>305</td>
<td>226.8</td>
<td>310</td>
<td>230.5</td>
</tr>
<tr>
<td><strong>Open Circuit Voltage (Voc/V)</strong></td>
<td>40.3</td>
<td>40.3</td>
<td>40.5</td>
<td>40.7</td>
<td>37.9</td>
<td>40.9</td>
</tr>
<tr>
<td><strong>Short Circuit Current (Isc/A)</strong></td>
<td>9.44</td>
<td>7.64</td>
<td>9.55</td>
<td>7.73</td>
<td>9.66</td>
<td>7.82</td>
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<tr>
<td><strong>Voltage at Maximum Power (Vmp/V)</strong></td>
<td>33.3</td>
<td>30.9</td>
<td>33.5</td>
<td>31.1</td>
<td>33.6</td>
<td>31.2</td>
</tr>
<tr>
<td><strong>Module Efficiency (%)</strong></td>
<td>17.7</td>
<td>18.0</td>
<td>18.3</td>
<td>18.6</td>
<td>18.9</td>
<td>19.2</td>
</tr>
</tbody>
</table>

**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

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

<table>
<thead>
<tr>
<th>Pmax (W)</th>
<th>Voc (V)</th>
<th>Isc (A)</th>
<th>Vmp (V)</th>
<th>Imp (A)</th>
<th>Pmax gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>326</td>
<td>40.7</td>
<td>10.14</td>
<td>33.6</td>
<td>9.69</td>
<td>5%</td>
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<tr>
<td>341</td>
<td>40.7</td>
<td>10.62</td>
<td>33.6</td>
<td>10.15</td>
<td>10%</td>
</tr>
<tr>
<td>357</td>
<td>40.8</td>
<td>11.10</td>
<td>33.7</td>
<td>10.59</td>
<td>15%</td>
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<tr>
<td>372</td>
<td>40.8</td>
<td>11.59</td>
<td>33.7</td>
<td>11.04</td>
<td>20%</td>
</tr>
<tr>
<td>388</td>
<td>40.8</td>
<td>12.07</td>
<td>33.7</td>
<td>11.51</td>
<td>25%</td>
</tr>
</tbody>
</table>

### Temperature Ratings (STC)

| Temperature Coefficient of Isc | +0.060%/°C |
| Temperature Coefficient of Voc | -0.300%/°C |
| Temperature Coefficient of Pmax | -0.370%/°C |

**Front Side Maximum Static Loading**
5400Pa

**Rear Side Maximum Static Loading**
2400Pa

**Hallstone Test**
25mm Hallstone at the speed of 23m/s

### I-V Curve

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

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

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

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**LONGi Solar**

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