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

Additional Value from LONGi Solar’s Linear Warranty
-0.55%

25-year Power Warranty Annual Power Attenuation -0.55%

100%
98%
91.2%
87.7%
84.5%
80.7%

2 5 10 15 20 25

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

Complete System and Product Certifications
IEC 61215, IEC 61730
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.

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LR6-60HPB 295~315M

**Design (mm)**

**Mechanical Parameters**

**Operating Parameters**

Operational Temperature: 40°C ~ 45°C
Power Output Tolerance: ±5 W
Voc and Isc Tolerance: ±3%
Maximum System Voltage: DC1000V (IEC)
Maximum Series Fuse Rating: 20A
Nominal Operating Cell Temperature: 45±2°C
Safety Class: Class II

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**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR6-60HPB-295M</th>
<th>LR6-60HPB-300M</th>
<th>LR6-60HPB-305M</th>
<th>LR6-60HPB-310M</th>
<th>LR6-60HPB-315M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Condition</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
</tr>
<tr>
<td>Maximum Power (Pmax/W)</td>
<td>295</td>
<td>218.5</td>
<td>300</td>
<td>222.2</td>
<td>305</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc/V)</td>
<td>39.6</td>
<td>36.9</td>
<td>39.8</td>
<td>37.1</td>
<td>40.1</td>
</tr>
<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>9.59</td>
<td>7.73</td>
<td>9.70</td>
<td>7.82</td>
<td>9.78</td>
</tr>
<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>32.7</td>
<td>30.2</td>
<td>32.9</td>
<td>30.4</td>
<td>33.1</td>
</tr>
<tr>
<td>Current at Maximum Power (Imp/A)</td>
<td>9.03</td>
<td>7.24</td>
<td>9.13</td>
<td>7.32</td>
<td>9.21</td>
</tr>
<tr>
<td>Module Efficiency(%)</td>
<td>17.8</td>
<td>18.1</td>
<td>18.4</td>
<td>18.7</td>
<td>19.0</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

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**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

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**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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