LR4-60HPB
345~370M

High Efficiency
Low LID Mono PERC with
Half-cut Technology

*Both 6BB & 9BB are available

12-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

+4.10%

Complete System and Product Certifications
IEC 61215, IEC 61730, UL 61730
ISO 14001: 2004: ISO Environment Management System
TIS62941: Guideline for module design qualification and type approval
OHSAS 18001: 2007 Occupational Health and Safety

Positive power tolerance [0 ~ +5W] guaranteed
High module conversion efficiency (up to 20.3%)
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

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI 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.

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**LR4-60HPB 345~370M**

**Mechanical Parameters**

- Cell Orientation: 1X0 (is:20)
- Junction Box: IP68, three diodes
- Output Cable: 4mm², 300mm in length, length can be customized
- Glass: Single glass
- Frame: Anodized aluminum alloy frame
- Weight: 19.5kg
- Dimension: 1755x1038x35mm
- Packaging: 30pcs per pallet
  - 180pcs per 20GP
  - 780pcs per 40HC

**Operating Parameters**

- Operational Temperature: -40 °C ~ +85 °C
- Power Output Tolerance: ±1.5 W
- Voc and Isc Tolerance: ±3%
- Maximum System Voltage: DC1000V (VCE/UL)
- Maximum Series Fuse Rating: 20A
- Nominal Operating Cell Temperature: 45±2 °C
- Safety Class: Class II
- Fire Rating: UL type 1 or 2

**Electrical Characteristics**

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<tbody>
<tr>
<td>Testing Condition</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
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<tr>
<td>Maximum Power (Pmax/W)</td>
<td>345</td>
<td>257.6</td>
<td>350</td>
<td>261.4</td>
<td>355</td>
<td>265.1</td>
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<tr>
<td>Open Circuit Voltage (Voc/V)</td>
<td>40.2</td>
<td>37.7</td>
<td>40.4</td>
<td>37.9</td>
<td>40.6</td>
<td>38.1</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>11.06</td>
<td>8.95</td>
<td>11.16</td>
<td>9.02</td>
<td>11.25</td>
<td>9.09</td>
</tr>
<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>34.2</td>
<td>31.8</td>
<td>34.4</td>
<td>32.0</td>
<td>34.6</td>
<td>32.2</td>
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<tr>
<td>Current at Maximum Power (Imp/A)</td>
<td>10.09</td>
<td>8.09</td>
<td>10.18</td>
<td>8.16</td>
<td>10.27</td>
<td>8.23</td>
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<tr>
<td>Module Efficiency(%)</td>
<td>18.9</td>
<td>19.2</td>
<td>19.5</td>
<td>19.8</td>
<td>20.0</td>
<td>20.3</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

**Temperature Ratings (STC)**

- Temperature Coefficient of Isc: +0.048%/°C
- Temperature Coefficient of Voc: -0.270%/°C
- Temperature Coefficient of Pmax: -0.350%/°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 (LR4-60HPB-360M)](image)

![Power-Voltage Curve (LR4-60HPB-360M)](image)

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