LR6-60HPB
300~320M

High Efficiency
Low LID Mono PERC with
Half-cut Technology

12-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output

-0.55%
25-year Power Warranty Annual Power Attenuation

+4.10%

Complete System and Product Certifications
IEC 61215, IEC 61730, UL 1703
ISO 14001: 2004: ISO Environment Management System
TS62941: 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 19.1%)
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

* Specifications subject to technical changes and tests.
LONGI Solar reserves the right of interpretation.

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Design (mm) Mechanical Parameters Operating Parameters

- Cell Orientation: 1×2 (6x20)
- Junction Box: IP67, three diodes
- Output Cable: 4mm², 300mm in length, length can be customized
- Glass: Single glass
- 3.2mm coated tempered glass
- Frame: Anodized aluminum alloy frame
- Weight: 18.9kg
- Dimension: 1683x996x25mm
- Packaging: 30pcs per pallet
  - 180pcs per 20GSP
  - 780pcs per 40HC

- Operational Temperature: -40°C ~ +85°C
- Power Output Tolerance: ±0.5 W
- Voc and Isc Tolerance: ±3%
- Maximum System Voltage: DC1400V (EC/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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR6-60HPB-300M</th>
<th>LR6-60HPB-305M</th>
<th>LR6-60HPB-310M</th>
<th>LR6-60HPB-315M</th>
<th>LR6-60HPB-320M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Condition</td>
<td>STC  NOCT  STC  NOCT  STC  NOCT  STC  NOCT  STC  NOCT  STC  NOCT  STC  NOCT  STC  NOCT</td>
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<tr>
<td>Maximum Power (Pmax/W)</td>
<td>300  222.2  305  225.9  310  229.6  315  233.4  320  237.1  315  233.4  320  237.1</td>
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<tr>
<td>Open Circuit Voltage (Voc/V)</td>
<td>39.8  37.1  40.1  37.4  40.3  37.7  40.6  37.9  40.9  38.2  40.6  37.9  40.9  38.2</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>9.70  7.82  9.78  7.88  9.86  7.94  9.94  8.01  10.02  8.08  9.94  8.01  10.02  8.08</td>
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<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>32.9  30.4  33.1  30.6  33.3  30.8  33.7  31.1  33.9  31.3  33.7  31.1  33.9  31.3</td>
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<tr>
<td>Current at Maximum Power (Imp/A)</td>
<td>9.13  7.32  9.21  7.38  9.30  7.46  9.36  7.50  9.43  7.56  9.36  7.50  9.43  7.56</td>
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<tr>
<td>Module Efficiency(%)</td>
<td>17.9  18.2  18.5  18.8  19.1  18.2  18.5  18.8  19.1</td>
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</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

Test uncertainty for Pmax: ±3%

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

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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