LR6-72HPH
370~390M

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

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 19.5%)
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

LONGI

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.
**LR6-72HPH 370~390M**

### Design (mm) and Mechanical Parameters

- **Cell Orientation:** 144 (6x24)
- **Junction Box:** IP67, three diodes
- **Output Cable:** 4mm², 1400mm in length
- **Connector:** Staubil Multicontact EVO2
- **Glass:** Single glass
  - 3.2mm coated tempered glass
- **Frame:** Anodized aluminum alloy frame
- **Weight:** 23.0kg
- **Dimensions:** 2000×996×35mm
- **Packaging:**
  - 30pcs per pallet
  - 150pcs per 20′GP
  - 660pcs per 40′HC

### Operating Parameters

- **Operational Temperature:** -40°C ~ +85°C
- **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°C
- **Safety Protection Class:** Class II
- **Fire Rating:** UL Type 1 or 2

### Electrical Characteristics

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR6-72HPH-370M</th>
<th>LR6-72HPH-375M</th>
<th>LR6-72HPH-380M</th>
<th>LR6-72HPH-385M</th>
<th>LR6-72HPH-390M</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>
</tr>
<tr>
<td><strong>Maximum Power (Pmax/W)</strong></td>
<td>370</td>
<td>274.1</td>
<td>375</td>
<td>277.8</td>
<td>380</td>
</tr>
<tr>
<td><strong>Open Circuit Voltage (Voc/V)</strong></td>
<td>48.6</td>
<td>45.4</td>
<td>48.8</td>
<td>45.6</td>
<td>49.0</td>
</tr>
<tr>
<td><strong>Short Circuit Current (Isc/A)</strong></td>
<td>9.79</td>
<td>7.89</td>
<td>9.87</td>
<td>7.95</td>
<td>9.96</td>
</tr>
<tr>
<td><strong>Voltage at Maximum Power (Vmp/V)</strong></td>
<td>40.2</td>
<td>37.1</td>
<td>40.4</td>
<td>37.3</td>
<td>40.6</td>
</tr>
<tr>
<td><strong>Current at Maximum Power (Imp/A)</strong></td>
<td>9.21</td>
<td>7.38</td>
<td>9.28</td>
<td>7.44</td>
<td>9.36</td>
</tr>
<tr>
<td><strong>Module Efficiency(%)</strong></td>
<td>18.5</td>
<td>18.8</td>
<td>19.0</td>
<td>19.3</td>
<td>19.5</td>
</tr>
</tbody>
</table>

**Test uncertainty for Pmax:** ±3%

**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:** +0.057%/°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 (LR6-72HPH-380M)**

**Power-Voltage Curve (LR6-72HPH-380M)**

**Current-Voltage Curve (LR6-72HPH-380M)**

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