LR4-72HPH
420-440M

High Efficiency
Low LID Mono PERC
with Half-cut Technology

Complete System and Product Certifications
IEC 61215, IEC61730, UL1703
ISO 14001:2004: ISO Environment Management System
TUV62941: 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 19.8%)
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 Solar 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 consistent and binding part of lawful documentation duly signed by both parties.
LR4–72HPH 420~440M

Design (mm) Mechanical Parameters Operating Parameters

- Cell Orientation: 144 (6x24)
- Junction Box: IP68, three diodes
- Output Cable: 4mm², 300mm in length, length can be customized
- Glass: Single glass 3.3mm tempered glass
- Frame: Anodized aluminum alloy frame
- Weight: 24 kg
- Dimension: 2115x1552x35mm
- Packaging: 30pcs per pallet
  150pcs per 20GP
  660pcs per 40FT

- Operational Temperature: -40°C ~ +85°C
- Power Output Tolerance: 0~±5 W
- Voc and Isc Tolerance: ±5%
- Maximum System Voltage: DC1500V (IEC/UL)
- Maximum Series Fuse Rating: 20A
- Nominal Operating Cell Temperature: 45±2°C
- Safety Class: Class II
- Fire Rating: UL type 4

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR4-72HPH-420M</th>
<th>LR4-72HPH-425M</th>
<th>LR4-72HPH-430M</th>
<th>LR4-72HPH-435M</th>
<th>LR4-72HPH-440M</th>
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</thead>
<tbody>
<tr>
<td>Testing Condition</td>
<td>STC NOCT</td>
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<td>STC NOCT</td>
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<tr>
<td>Maximum Power (Pmax/W)</td>
<td>420 311.1 425 314.8 430 318.5 435 322.2 440 326.0</td>
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<tr>
<td>Open Circuit Voltage ( Voc/V )</td>
<td>48.8 45.5 49.0 45.7 49.2 45.9 49.4 46.1 49.6 46.3</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>11.04 8.90 11.11 8.95 11.19 9.02 11.26 9.08 11.33 9.13</td>
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<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>40.2 37.1 40.4 37.3 40.6 37.5 40.8 37.7 41.0 37.9</td>
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<tr>
<td>Current at Maximum Power (imp/A)</td>
<td>10.45 8.38 10.52 8.44 10.60 8.50 10.67 8.56 10.74 8.61</td>
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<tr>
<td>Module Efficiency(%)</td>
<td>18.9 19.1 19.3 19.6 19.8</td>
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</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: +0.057%/°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 (LR4-72HPH-430M)](image1)

![Power-Voltage Curve (LR4-72HPH-430M)](image2)

![Current-Voltage Curve (LR4-72HPH-430M)](image3)

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