Hi-MO 5m

LR5-54HPH
405~425M

- Suitable for distributed projects
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer
  - Integrated Segmented Ribbons
  - 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

15-year Warranty for Materials and Processing

25-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO14001: 2015: ISO Environment Management System
ISO45001: 2018: Occupational Health and Safety
TS62941: Guideline for module design qualification and type approval

LONGI
**Hi-MO 5m**

**LR5-54HPH 405~425M**

- **21.8%** Max Module Efficiency
- **0~3%** Power Tolerance
- **<2%** First Year Power Degradation
- **0.55%** Year 2-25 Power Degradation
- **HALF-CELL** Lower operating temperature

### Additional Value

**25-Year Power Warranty**

![Image of 25-Year Power Warranty graph]

**84.80%**

### Mechanical Parameters

- **Cell Orientation**: 108 (6 × 18)
- **Junction Box**: IP68, three diodes
- **Output Cable**: 4mm², 1200mm
- **Connector**: Staubli MC4 EVO2
- **Glass**: Single glass, 3.2mm coated tempered glass
- **Frame**: Anodized aluminum alloy frame
- **Weight**: 20.8kg
- **Dimension**: 1722 × 1134 × 30mm
- **Packaging**: 36 pcs per pallet / 216 pcs per 20’ GP / 936 pcs per 40’ HC

### Electrical Characteristics

<table>
<thead>
<tr>
<th>Module Type</th>
<th>STC: AM1.5 1000W/m² 25ºC</th>
<th>NOCT: AM1.5 800W/m² 20ºC</th>
<th>1m/s Test uncertainty for Pmax ±3%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module Type</strong></td>
<td>LRS-54HPH-405M</td>
<td>LRS-54HPH-410M</td>
<td>LRS-54HPH-415M</td>
</tr>
<tr>
<td><strong>Testing Condition</strong></td>
<td>STC, NOCT</td>
<td>STC, NOCT</td>
<td>STC, NOCT</td>
</tr>
<tr>
<td><strong>Maximum Power (Pmax/W)</strong></td>
<td>405</td>
<td>302.7</td>
<td>410</td>
</tr>
<tr>
<td><strong>Open Circuit Voltage (Voc/V)</strong></td>
<td>37.00</td>
<td>34.79</td>
<td>37.25</td>
</tr>
<tr>
<td><strong>Short Circuit Current (Isc/A)</strong></td>
<td>13.83</td>
<td>11.18</td>
<td>13.88</td>
</tr>
<tr>
<td><strong>Voltage at Maximum Power (Vmp/V)</strong></td>
<td>31.00</td>
<td>28.80</td>
<td>31.25</td>
</tr>
<tr>
<td><strong>Current at Maximum Power (Imp/A)</strong></td>
<td>13.07</td>
<td>10.52</td>
<td>13.12</td>
</tr>
<tr>
<td><strong>Module Efficiency(%)</strong></td>
<td>20.7</td>
<td>21.0</td>
<td>21.3</td>
</tr>
</tbody>
</table>

### Operating Parameters

- **Operational Temperature**: -40ºC ~ +85ºC
- **Power Output Tolerance**: 0 ~ 3%
- **Voc and Isc Tolerance**: ±3%
- **Maximum System Voltage**: DC1500V (IEC/UL)
- **Maximum Series Fuse Rating**: 25A
- **Nominal Operating Cell Temperature**: 45±2ºC
- **Protection Class**: Class II
- **Fire Rating**: UL type 1 or 2

### Mechanical Loading

- **Front Side Maximum Static Loading**: 5400Pa
- **Rear Side Maximum Static Loading**: 2400Pa
- **Hailstone Test**: 25mm Hailstone at the speed of 23m/s

### Temperature Ratings (STC)

- **Temperature Coefficient of Isc**: +0.050%/ºC
- **Temperature Coefficient of Voc**: -0.265%/ºC
- **Temperature Coefficient of Pmax**: -0.340%/ºC

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Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20220411V15)