LR6-72HBD
370~390M

High Efficiency
Low LID Bifacial PERC with
Half-cut Technology

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

-0.45%
30-year Power Warranty Annual
Power Attenuation -0.45%

84.95%

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

Front side performance equivalent to conventional low LID mono PERC:
- High module conversion efficiency (up to 19.4%)
- Better energy yield with excellent low irradiance performance and temperature coefficient
- First year power degradation <2%

Bifacial technology enables additional energy harvesting from rear side (up to 25%)

Glass/glass lamination ensures 30 year product lifetime, with annual power degradation < 0.45%,
1500V compatible to reduce BOS cost

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.

Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China
Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

20200401V11
LR6-72HBD 370~390M

Design (mm)

Mechanical Parameters

Operational Parameters

Cell Orientation: 144 (6x24)
Junction Box: IP67, three diodes
Output Cable: 4mm², 300mm in length, length can be customized
Glass: Dual glass
2.0mm coated tempered glass
Frame: Anodized aluminum alloy frame
Weight: 26.8g
Dimensions: 2020x998x30mm
Packaging: 35pcs per pallet
75pcs per 20’GP
770pcs per 40’HC

Operational Temperature: -40°C ~ +85°C
Power Output Tolerance: 0 ~ +5 W
Voc and Isc Tolerance: ±3%
Maximum System Voltage: DC1500V (DC/UL)
Maximum Series Fuse Rating: 20A
Nominal Operating Cell Temperature: 45±2°C
Safety Class: Class II
Fire Rating: UL type I
Bifaciality: Gearing 70±5%

Electrical Characteristics

<table>
<thead>
<tr>
<th>Model Number</th>
<th>LR6-72HBD-370M</th>
<th>LR6-72HBD-375M</th>
<th>LR6-72HBD-380M</th>
<th>LR6-72HBD-385M</th>
<th>LR6-72HBD-390M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Condition</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
<td>NOCT</td>
<td>STC</td>
</tr>
<tr>
<td>Maximum Power (Pmax/W)</td>
<td>370</td>
<td>275.1</td>
<td>375</td>
<td>278.8</td>
<td>380</td>
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<tr>
<td></td>
<td>282.6</td>
<td>385</td>
<td>283.6</td>
<td>390</td>
<td>290.0</td>
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<tr>
<td>Open Circuit Voltage (Voc/V)</td>
<td>48.1</td>
<td>44.8</td>
<td>48.3</td>
<td>45.0</td>
<td>48.5</td>
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<td></td>
<td>45.2</td>
<td>48.7</td>
<td>45.4</td>
<td>49.1</td>
<td>45.7</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>9.80</td>
<td>7.93</td>
<td>9.87</td>
<td>7.99</td>
<td>9.97</td>
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<tr>
<td></td>
<td>8.07</td>
<td>10.03</td>
<td>8.12</td>
<td>10.07</td>
<td>8.15</td>
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<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>39.8</td>
<td>36.9</td>
<td>40.0</td>
<td>37.1</td>
<td>40.2</td>
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<tr>
<td></td>
<td>40.2</td>
<td>40.4</td>
<td>37.5</td>
<td>40.8</td>
<td>37.9</td>
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<tr>
<td>Current at Maximum Power (Imp/A)</td>
<td>9.30</td>
<td>7.45</td>
<td>9.38</td>
<td>7.51</td>
<td>9.47</td>
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<td></td>
<td>7.59</td>
<td>9.53</td>
<td>7.63</td>
<td>9.56</td>
<td>7.66</td>
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<tr>
<td>Module Efficiency(%)</td>
<td>18.4</td>
<td>18.6</td>
<td>18.9</td>
<td>19.1</td>
<td>19.4</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

Electrical characteristics with different rear side power gain (reference to 380W front)

<table>
<thead>
<tr>
<th>Pmax /W</th>
<th>Voc /V</th>
<th>Isc /A</th>
<th>Vmp /V</th>
<th>Imp /A</th>
<th>Pmax gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>399</td>
<td>48.5</td>
<td>10.47</td>
<td>40.2</td>
<td>9.94</td>
<td>5%</td>
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<tr>
<td>418</td>
<td>48.5</td>
<td>10.97</td>
<td>40.2</td>
<td>10.42</td>
<td>10%</td>
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<tr>
<td>437</td>
<td>48.6</td>
<td>11.47</td>
<td>40.3</td>
<td>10.89</td>
<td>15%</td>
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<tr>
<td>456</td>
<td>48.6</td>
<td>11.96</td>
<td>40.3</td>
<td>11.36</td>
<td>20%</td>
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<tr>
<td>475</td>
<td>48.6</td>
<td>12.46</td>
<td>40.3</td>
<td>11.84</td>
<td>25%</td>
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</tbody>
</table>

Temperature Ratings (STC)

Temperature Coefficient of Isc  +0.060%/°C
Temperature Coefficient of Voc  -0.300%/°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 (LR6-72HBD-380M)

Power-Voltage Curve (LR6-72HBD-380M)

Current-Voltage Curve (LR6-72HBD-380M)

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