REAL BLACK series

LR4-60HPB 345~365M

High Efficiency
Low LID Mono PERC with
Half-cut Technology

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

-0.55%
25-year Power Warranty Annual Power Attenuation
+0.55%

+4.10%

Complete System and Product Certifications
IEC 61215, IEC61730, UL1703
ISO 14001: 2004: ISO Environment Management System
T562941: 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 Solar
Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China
Tel:+86-21-80162806 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

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.
LR4-60HPB 345~365M

Design (mm)

Mechanical Parameters
- Cell Orientation: 120° (6x20)
- Junction Box: IP68, three diodes
- Output Cable: 4mm², 300mm in length
- Weight: 20kg

Operating Parameters
- Operational Temperature: -40°C ~ +85°C
- Power Output Tolerance: ±5%
- Voc and Isc Tolerance: ±3%
- Maximum System Voltage: DC1000V (IEC61)
- Maximum Series Fuse Rating: 20A
- Nominal Operating Cell Temperature: 45±2°C
- Safety Class: Class II
- Fire Rating: UL type 1 or type 2

Electrical Characteristics

<table>
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<th>Model Number</th>
<th>LR4-60HPB-345M</th>
<th>LR4-60HPB-350M</th>
<th>LR4-60HPB-355M</th>
<th>LR4-60HPB-360M</th>
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</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>345</td>
<td>255.6</td>
<td>350</td>
<td>259.3</td>
<td>355</td>
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<tr>
<td>Open Circuit Voltage (Voc/V)</td>
<td>40.3</td>
<td>37.6</td>
<td>40.5</td>
<td>37.8</td>
<td>40.7</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>10.93</td>
<td>8.81</td>
<td>11.02</td>
<td>8.89</td>
<td>11.10</td>
</tr>
<tr>
<td>Voltage at Maximum Power (Vmp/V)</td>
<td>33.1</td>
<td>30.6</td>
<td>33.3</td>
<td>30.8</td>
<td>33.5</td>
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<tr>
<td>Current at Maximum Power (Imp/A)</td>
<td>10.43</td>
<td>8.36</td>
<td>10.52</td>
<td>8.44</td>
<td>10.60</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>18.5</td>
<td>18.7</td>
<td>19.0</td>
<td>19.3</td>
<td>19.5</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

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 (LR4-60HPB-355M)

Power-Voltage Curve (LR4-60HPB-355M)

Current-Voltage Curve (LR4-60HPB-355M)

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Tel: +86-21-80162606   E-mail: module@longi-silicon.com   Facebook: www.facebook.com/LONGiSolar

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