

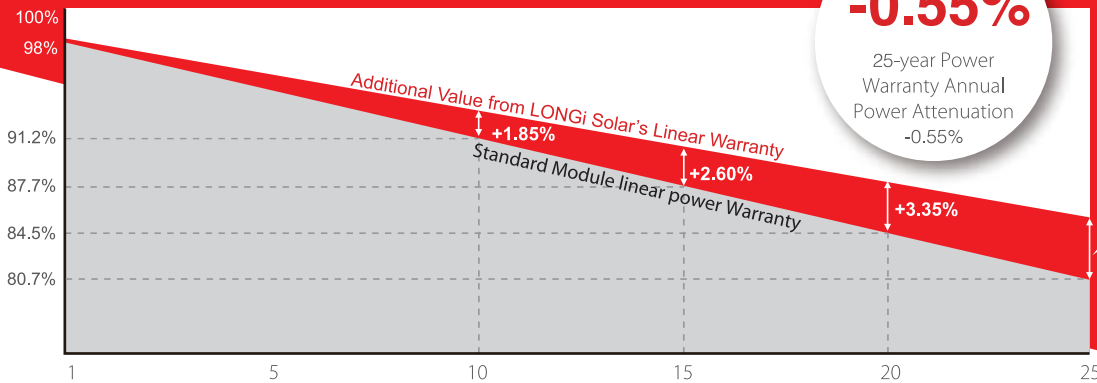
\*Both 6BB & 9BB are available

# LR4-60HPH 350~380M



**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



**-0.55%**

25-year Power  
Warranty Annual  
Power Attenuation  
-0.55%

**+4.10%**

## Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730  
ISO 9001:2008: ISO Quality Management System  
ISO 14001: 2004: ISO Environment Management System  
TS62941: Guideline for module design qualification and type approval  
OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests.  
LONGi Solar reserves the right of interpretation.

**Positive power tolerance** (0 ~ +5W) guaranteed

**High module conversion efficiency** (up to 20.9%)

**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

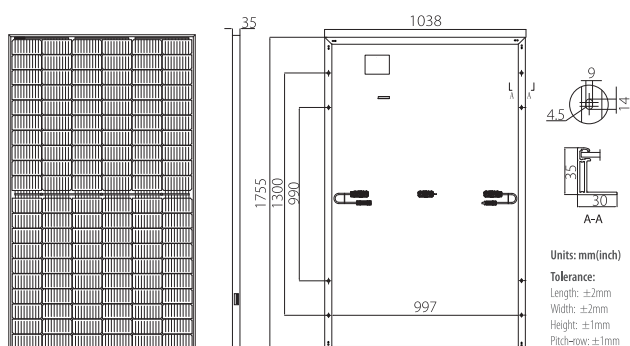
# LONGi

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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.

# LR4-60HPH 350~380M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 120 (6×20)  
Junction Box: IP68, three diodes  
Output Cable: 4mm<sup>2</sup>, 300mm in length,  
length can be customized  
Glass: Single glass  
3.2mm coated tempered glass  
Frame: Anodized aluminum alloy frame  
Weight: 19.5kg  
Dimension: 1755×1038×35mm  
Packaging: 30pcs per pallet  
180pcs per 20'GP  
780pcs per 40'HC

## Operating Parameters

Operational Temperature: -40 °C ~ +85 °C  
Power Output Tolerance: 0 ~ +5 W  
Voc and Isc Tolerance:  $\pm 3\%$   
Maximum System Voltage: DC1500V (IEC/UL)  
Maximum Series Fuse Rating: 20A  
Nominal Operating Cell Temperature: 45 $\pm 2$  °C  
Safety Class: Class II  
Fire Rating: UL type 1 or 2

## Electrical Characteristics

Test uncertainty for Pmax:  $\pm 3\%$

| Model Number                     | LR4-60HPH-350M |       | LR4-60HPH-355M |       | LR4-60HPH-360M |       | LR4-60HPH-365M |       | LR4-60HPH-370M |       | LR4-60HPH-375M |       | LR4-60HPH-380M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 350            | 261.4 | 355            | 265.1 | 360            | 268.8 | 365            | 272.6 | 370            | 276.3 | 375            | 280.0 | 380            | 283.8 |
| Open Circuit Voltage (Voc/V)     | 40.1           | 37.6  | 40.3           | 37.8  | 40.5           | 38.0  | 40.7           | 38.2  | 40.9           | 38.3  | 41.1           | 38.5  | 41.3           | 38.7  |
| Short Circuit Current (Isc/A)    | 11.15          | 9.02  | 11.25          | 9.10  | 11.35          | 9.17  | 11.43          | 9.25  | 11.52          | 9.32  | 11.60          | 9.38  | 11.69          | 9.45  |
| Voltage at Maximum Power (Vmp/V) | 33.6           | 31.3  | 33.8           | 31.5  | 34.0           | 31.7  | 34.2           | 31.8  | 34.4           | 32.0  | 34.6           | 32.2  | 34.8           | 32.4  |
| Current at Maximum Power (Imp/A) | 10.42          | 8.35  | 10.51          | 8.43  | 10.59          | 8.49  | 10.68          | 8.56  | 10.76          | 8.63  | 10.84          | 8.69  | 10.92          | 8.76  |
| Module Efficiency(%)             | 19.2           |       | 19.5           |       | 19.8           |       | 20.0           |       | 20.3           |       | 20.6           |       | 20.9           |       |

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/s

## Temperature Ratings (STC)

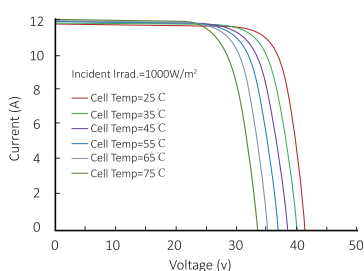
|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Isc  | +0.048%/°C |
| Temperature Coefficient of Voc  | -0.270%/°C |
| Temperature Coefficient of Pmax | -0.350%/°C |

## Mechanical Loading

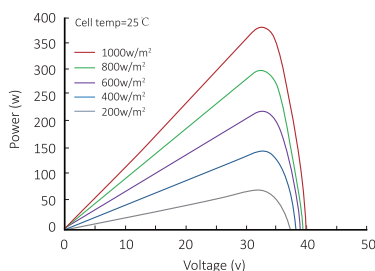
|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                         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

## I-V Curve

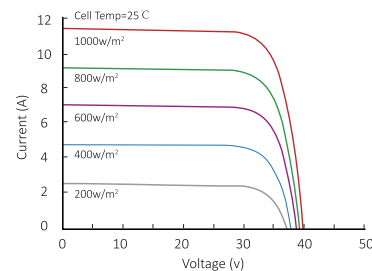
Current-Voltage Curve (LR4-60HPH-365M)



Power-Voltage Curve (LR4-60HPH-365M)



Current-Voltage Curve (LR4-60HPH-365M)



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