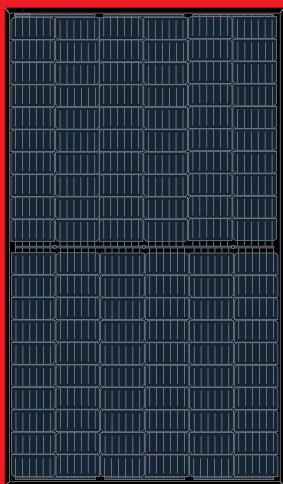


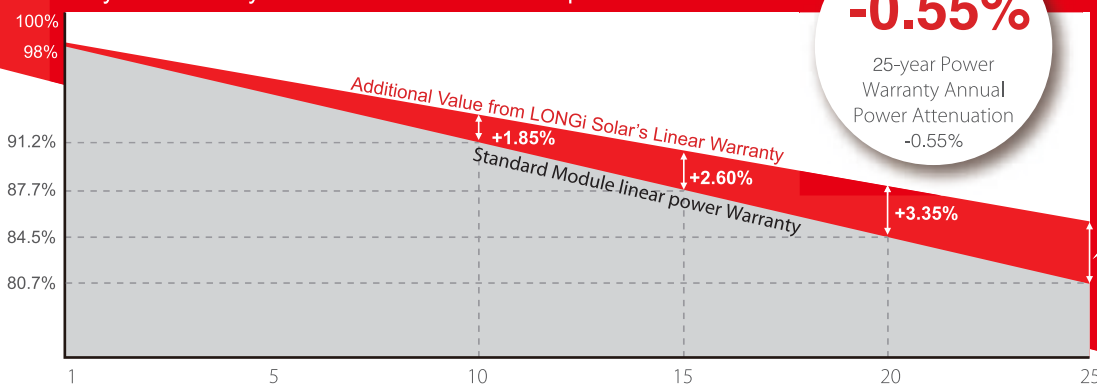
REAL BLACK series



# 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 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 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

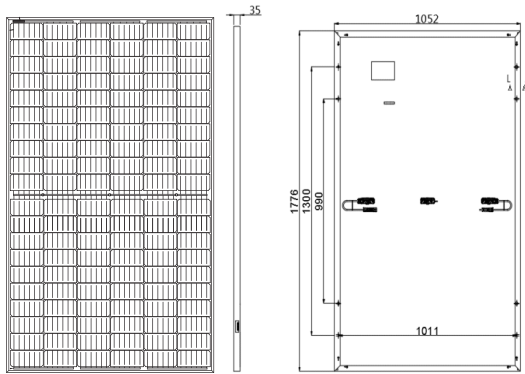
# LONGi Solar

Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China  
Tel: +86-21-80162606 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 consisting and binding part of lawful documentation duly signed by both parties.

# LR4-60HPB 345~365M

## 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: 20kg  
 Dimension: 1776×1052×35mm  
 Packaging: 30pcs per pallet  
 180pcs per 20'GP  
 720pcs per 40'HC

## Operating Parameters

Operational Temperature: -40 C ~ +85 C  
 Power Output Tolerance: 0 ~ +5 W  
 Voc and Isc Tolerance: ±3%  
 Maximum System Voltage: DC1000V (IEC/UL)  
 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

Test uncertainty for Pmax: ±3%

| Model Number                     | LR4-60HPB-345M |       | LR4-60HPB-350M |       | LR4-60HPB-355M |       | LR4-60HPB-360M |       | LR4-60HPB-365M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 345            | 255.6 | 350            | 259.3 | 355            | 263.0 | 360            | 266.7 | 365            | 270.4 |
| Open Circuit Voltage (Voc/V)     | 40.3           | 37.6  | 40.5           | 37.8  | 40.7           | 38.0  | 40.9           | 38.2  | 41.1           | 38.4  |
| Short Circuit Current (Isc/A)    | 10.93          | 8.81  | 11.02          | 8.89  | 11.10          | 8.95  | 11.20          | 9.03  | 11.28          | 9.09  |
| Voltage at Maximum Power (Vmp/V) | 33.1           | 30.6  | 33.3           | 30.8  | 33.5           | 30.9  | 33.7           | 31.1  | 33.9           | 31.3  |
| Current at Maximum Power (Imp/A) | 10.43          | 8.36  | 10.52          | 8.44  | 10.60          | 8.50  | 10.69          | 8.57  | 10.77          | 8.64  |
| Module Efficiency(%)             | 18.5           |       | 18.7           |       | 19.0           |       | 19.3           |       | 19.5           |       |

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 )

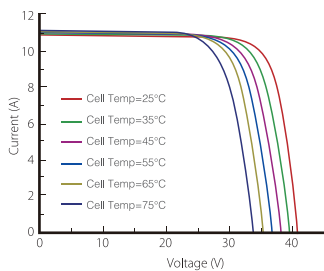
|                                 |           |
|---------------------------------|-----------|
| Temperature Coefficient of Isc  | +0.057%/C |
| Temperature Coefficient of Voc  | -0.286%/C |
| Temperature Coefficient of Pmax | -0.370%/C |

## Mechanical Loading

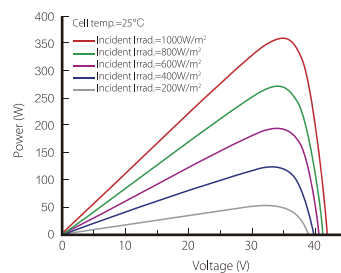
|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                         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

## I-V Curve

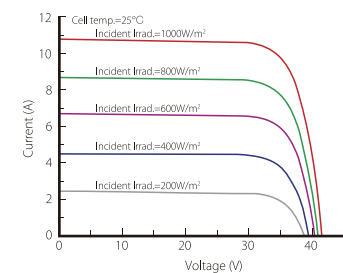
Current-Voltage Curve (LR4-60HPB-355M)



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



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



# LONGI Solar

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

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 consisting and binding part of lawful documentation duly signed by both parties.