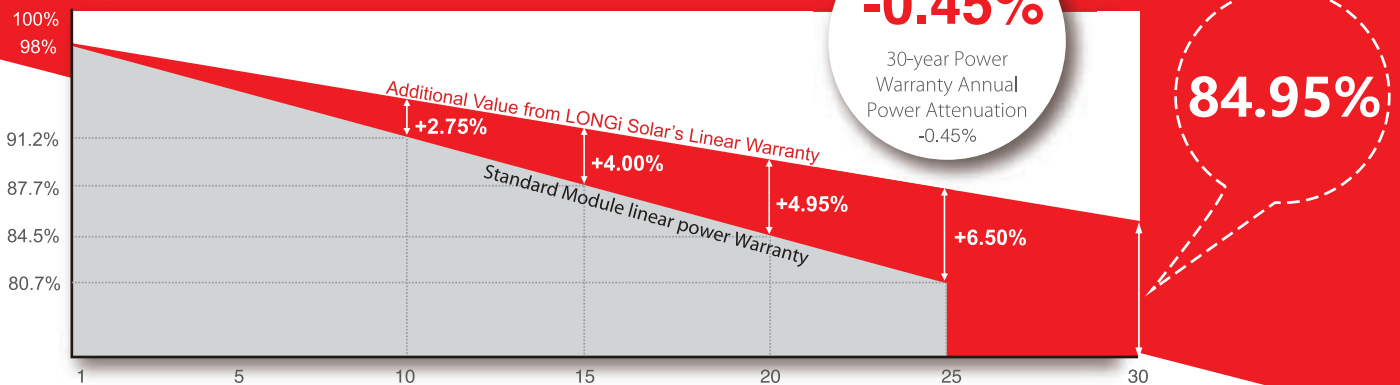


LR4-60HBD 345~365M

Hi-M04

**High Efficiency
Low LID Bifacial PERC with
Half-cut Technology**

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



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.

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

30mm frame design enables easy installation and robust mechanical strength

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, LONGi Solar reserve the right to make such modification at anytime without further notice; Demanding party shall accept the latest version of the technical specification as the latest lawful documentation duly signed by both parties.

Benoit bij besluit van
Omgevingsdienst

De Vallei

Kenmerk: 2019W2746

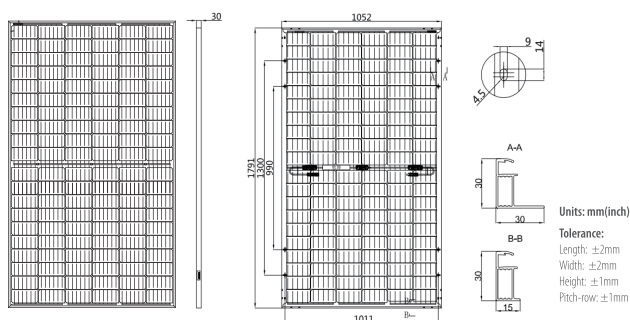
Datum: 12-03-2020



of modification accordingly. LONGi Solar have the sole right to make such as contract need, and make it a consisting and binding part of

LR4-60HBD 345~365M

Design (mm)



Mechanical Parameters

Cell Orientation: 120 (6×20)

Junction Box: IP68, three diodes

Output Cable: 4mm², 300mm in length, length can be customized

Glass: Dual glass

2.0mm tempered glass

Frame: Anodized aluminum alloy frame

Weight: 24.0kg

Dimension: 1791×1052×30mm

Packaging: 35pcs per pallet

210pcs per 20'GP

840pcs per 40'HC

Operating Parameters

Operational Temperature: -40℃ ~ +85℃

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 ± 2 ℃

Safety Class: Class II

Fire Rating: UL type 3

Bifaciality: Glazing $\geq 70\%$

Electrical Characteristics

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

Model Number	LR4-60HBD-345M		LR4-60HBD-350M		LR4-60HBD-355M		LR4-60HBD-360M		LR4-60HBD-365M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	345	256.5	350	260.3	355	264.0	360	267.7	365	271.4
Open Circuit Voltage (Voc/V)	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5	41.5	38.7
Short Circuit Current (Isc/A)	10.88	8.81	10.96	8.87	11.04	8.94	11.11	8.99	11.18	9.05
Voltage at Maximum Power (Vmp/V)	33.7	31.3	33.9	31.5	34.1	31.7	34.3	31.8	34.5	32.0
Current at Maximum Power (Imp/A)	10.24	8.20	10.33	8.27	10.42	8.35	10.50	8.41	10.58	8.47
Module Efficiency(%)	18.3		18.6		18.8		19.1		19.4	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25℃, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃, Spectra at AM1.5, Wind at 1m/s

Electrical characteristics with different rear side power gain (reference to 355W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
373	41.1	11.59	34.1	10.94	5%
391	41.1	12.14	34.1	11.46	10%
408	41.2	12.70	34.2	11.98	15%
426	41.2	13.25	34.2	12.50	20%
444	41.2	13.80	34.2	13.03	25%

Temperature Ratings (STC)

Temperature Coefficient of Isc: +0.060%/℃

Temperature Coefficient of Voc: -0.300%/℃

Temperature Coefficient of Pmax: -0.370%/℃

Mechanical Loading

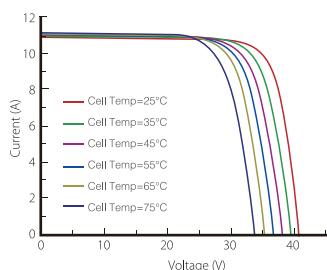
Front Side Maximum Static Loading: 5400Pa

Rear Side Maximum Static Loading: 2400Pa

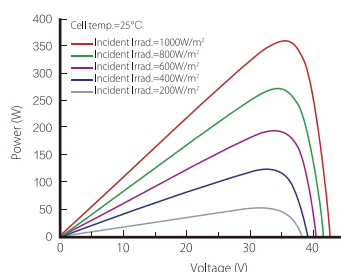
Hailstone Test: 25mm Hailstone at the speed of 23m/s

I-V Curve

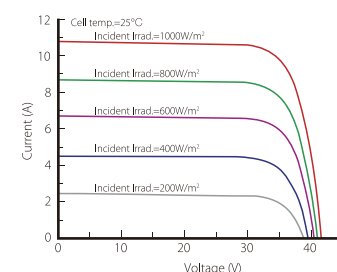
Current-Voltage Curve (LR4-60HBD-355M)



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



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



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De Vallei
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