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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Runda (Xi'an) Resource Technology Co., Ltd.**

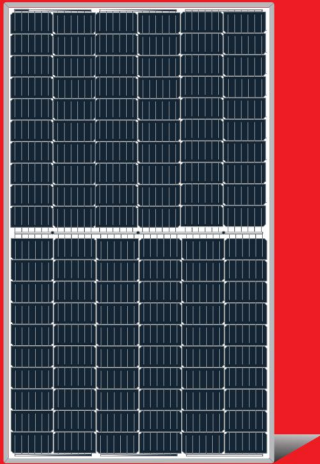
**LR6-60HBD 300~325M**

**LR6-60HBD 320M**

Also available on the web at  
[EnergyPal.com/runda-xi-an-resource-technology-co-ltd-solar-panels/lr6-60hbd-320m](http://EnergyPal.com/runda-xi-an-resource-technology-co-ltd-solar-panels/lr6-60hbd-320m)

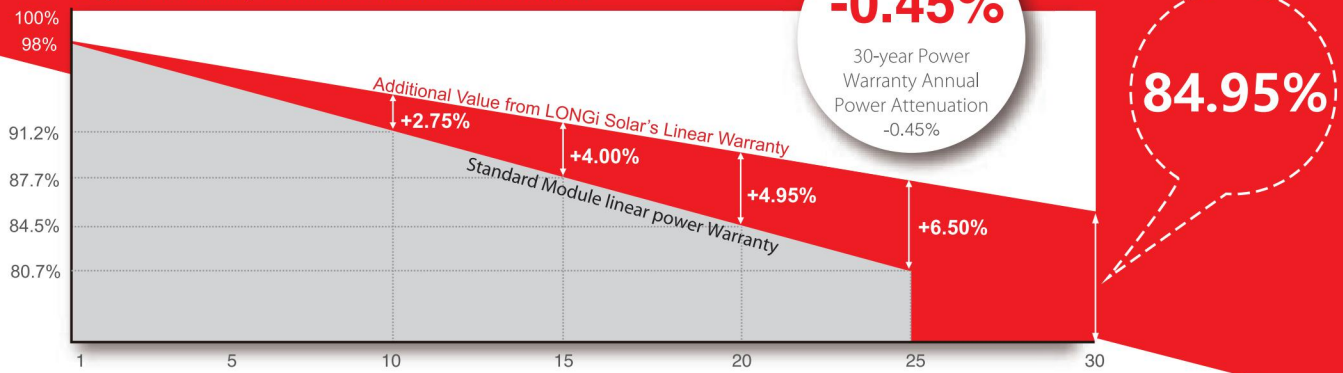
# LR6-60HBD 300~325M

Hi-MO3



**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 19.2%)
- 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

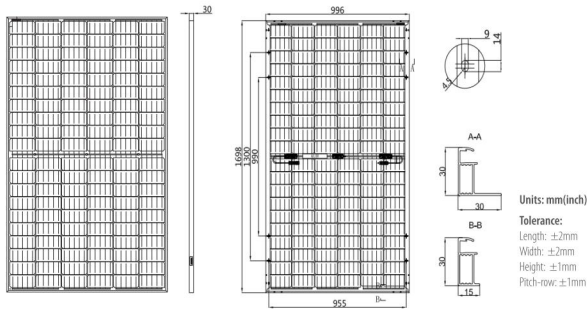
**Reduced hot spot risk** with optimized electrical design and lower operating current



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# LR6-60HBD 300~325M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 120 (6×20)  
Junction Box: IP67, three diodes  
Output Cable: 4mm<sup>2</sup>, 300mm in length, length can be customized  
Glass: Dual glass  
2.0mm tempered glass  
Frame: Anodized aluminum alloy frame  
Weight: 22.0kg  
Dimension: 1698×996×30mm  
Packaging: 35pcs per pallet  
210pcs per 20'GP  
910pcs 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: DC1500V (IEC/UL)  
Maximum Series Fuse Rating: 20A  
Nominal Operating Cell Temperature: 45±2 C  
Safety Class: Class II  
Fire Rating: UL type 3  
Bifaciality: Coating≥75%  
Glazing≥70%

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR6-60HBD-300M		LR6-60HBD-305M		LR6-60HBD-310M		LR6-60HBD-315M		LR6-60HBD-320M		LR6-60HBD-325M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	300	223.1	305	226.8	310	230.5	315	234.2	320	237.9	325	241.7
Open Circuit Voltage (Voc/V)	40.3	37.5	40.5	37.7	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5
Short Circuit Current (Isc/A)	9.44	7.64	9.55	7.73	9.66	7.82	9.75	7.90	9.86	7.98	9.95	8.06
Voltage at Maximum Power (Vmp/V)	33.3	30.9	33.5	31.1	33.6	31.2	33.8	31.4	34.0	31.6	34.2	31.8
Current at Maximum Power (Imp/A)	9.01	7.22	9.12	7.30	9.23	7.39	9.32	7.46	9.42	7.54	9.51	7.62
Module Efficiency(%)	17.7		18.0		18.3		18.6		18.9		19.2	

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

Electrical characteristics with different rear side power gain (reference to 310W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
326	40.7	10.14	33.6	9.69	5%
341	40.7	10.62	33.6	10.15	10%
357	40.8	11.10	33.7	10.59	15%
372	40.8	11.59	33.7	11.04	20%
388	40.8	12.07	33.7	11.51	25%

## Temperature Ratings ( STC )

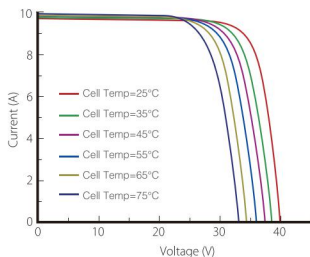
Temperature Coefficient of Isc	+0.060%/ C
Temperature Coefficient of Voc	-0.300%/ C
Temperature Coefficient of Pmax	-0.370%/ C

## Mechanical Loading

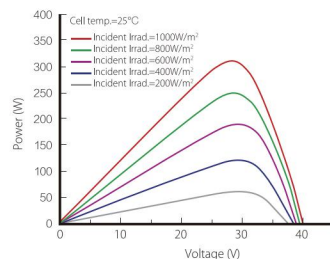
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve

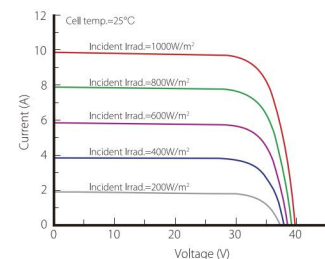
Current-Voltage Curve (LR6-60HBD-310M)



Power-Voltage Curve (LR6-60HBD-310M)



Current-Voltage Curve (LR6-60HBD-310M)



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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.