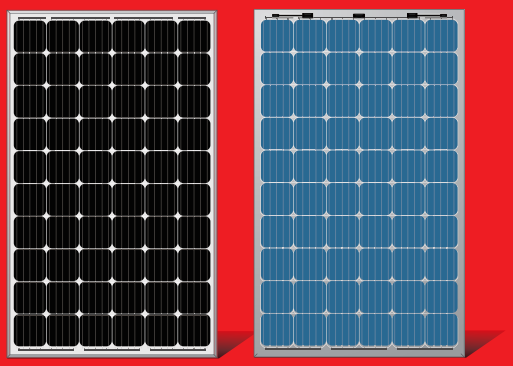
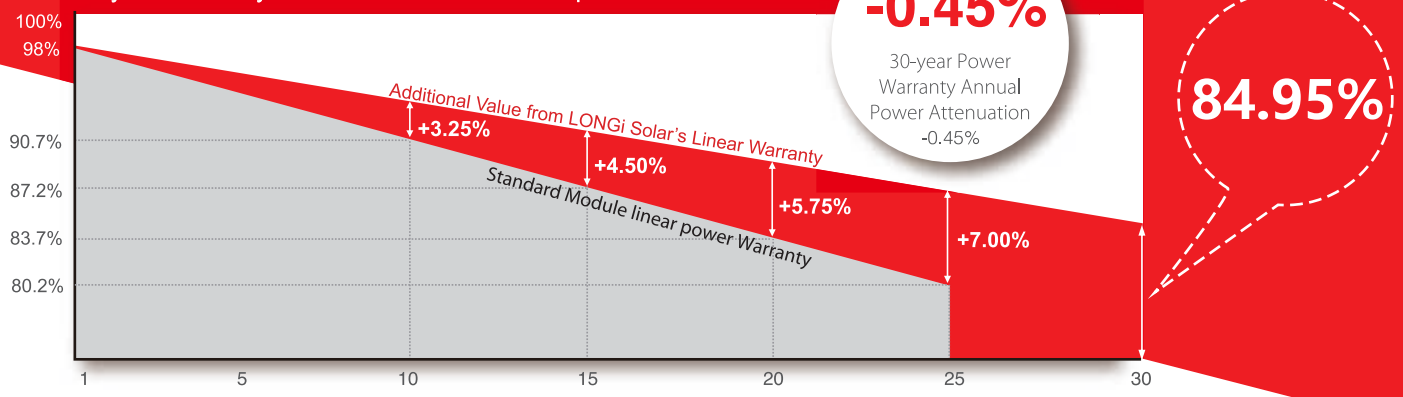
LR6-60BP
295~315M

New



Hi-MO2 High Efficiency Low LID Bifacial PERC Technology Best Solution for Lower LCOE

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 19.0%)
- 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

40mm frame design enables easy installation and robust mechanical strength

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

LONGi Solar

Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203
Tel: + 86-21-61047332 Fax: +86-21-61047377 E-mail: module@longi-silicon.com
Facebook: www.facebook.com/LONGi Solar

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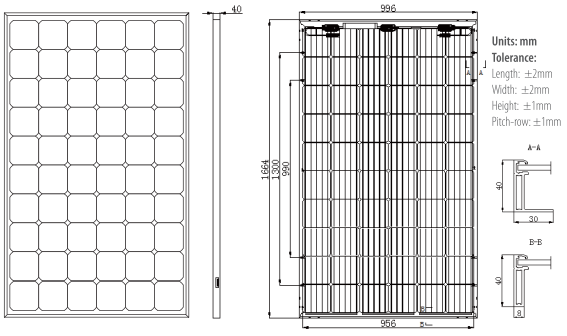
LR6-60BP **295~315M**

Design（mm）



Mechanical Parameters

Cell Orientation: 60（6×10）

Junction Box: IP67, three diodes

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

Weight: 22.5kg

Dimension: 1664×996×40mm

Packaging: 26pcs per pallet

Operating Parameters

Operational Temperature: -40℃ ~ +85℃

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℃

Application Class: Class II

Bifaciality: ≥75%

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR6-60BP-295M		LR6-60BP-300M		LR6-60BP-305M		LR6-60BP-310M		LR6-60BP-315M	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back
Maximum Power (Pmax/W)	295	222	300	225	305	229	310	233	315	237
Open Circuit Voltage (Voc/V)	39.9	39.7	40.0	39.8	40.1	39.9	40.2	40.0	40.4	40.3
Short Circuit Current (Isc/A)	9.68	7.32	9.79	7.38	9.92	7.48	10.05	7.58	10.14	7.65
Voltage at Maximum Power (Vmp/V)	32.4	32.8	32.5	32.9	32.7	33.2	32.9	33.3	33.1	33.6
Current at Maximum Power (Imp/A)	9.11	6.78	9.23	6.84	9.33	6.91	9.44	7.00	9.51	7.05
Module Efficiency(%)	17.8	13.4	18.1	13.6	18.4	13.8	18.7	14.1	19.0	14.3

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

Electrical characteristics with different rear side power gain (reference to 305W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
320	40.1	10.42	32.7	9.79	5%
336	40.1	10.92	32.7	10.26	10%
351	40.2	11.41	32.6	10.73	15%
366	40.2	11.91	32.6	11.19	20%
381	40.2	12.40	32.6	11.66	25%

Temperature Ratings（STC）

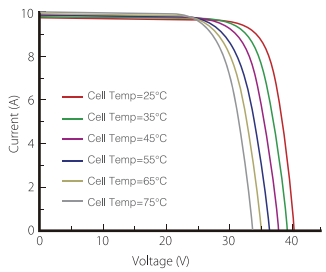
Temperature Coefficient of Isc	+0.060%/℃
Temperature Coefficient of Voc	-0.300%/℃
Temperature Coefficient of Pmax	-0.370%/℃

Mechanical Loading

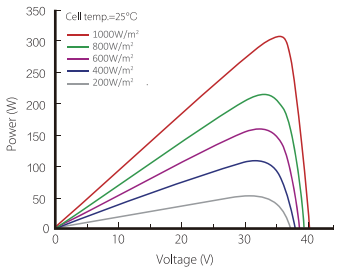
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

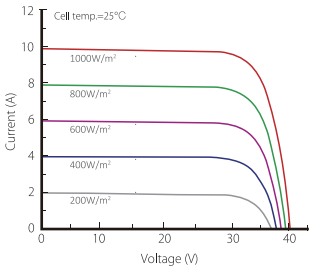
Current-Voltage Curve (LR6-60BP-305M)



Power-Voltage Curve (LR6-60BP-305M)



Current-Voltage Curve (LR6-60BP-305M)



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