

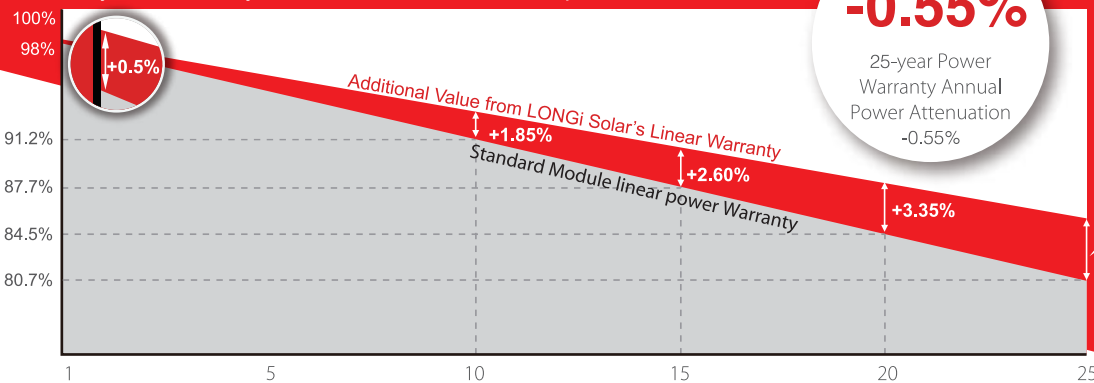
LR6-60PB 285~305M



Hi-MO1 High Efficiency Low LID Mono PERC Technology (60C/All Black Module)

*Aesthetic appearance with black frame and
backsheet, best suited for rooftop installation*

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 18.7%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Better energy yield with excellent low irradiance performance and temperature coefficient

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

Adaptable to harsh environment: passed rigorous salt mist and ammonia tests

Robust frame (40mm) withstands mechanical loading of 5400Pa for snow load on front and 2400Pa for wind load on rear side

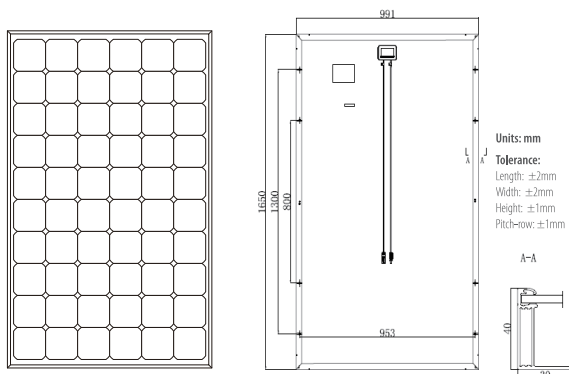
LONGi Solar

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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.

LR6-60PB 285~305M

Design (mm)



Mechanical Parameters

Cell Orientation: 60 (6×10)
 Junction Box: IP67, three diodes
 Output Cable: 4mm², 1000mm in length
 Connector: MC4 or MC4 comparable
 Weight: 18.2kg
 Dimension: 1650×991×40mm
 Packaging: 26pcs per pallet

Operating Parameters

Operational Temperature: -40 C ~ +85 C
 Power Output Tolerance: 0 ~ +5 W
 Maximum System Voltage: DC1000V (IEC)
 Maximum Series Fuse Rating: 20A
 Nominal Operating Cell Temperature: 45±2 C
 Application Class: Class A

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR6-60PB-285M		LR6-60PB-290M		LR6-60PB-295M		LR6-60PB-300M		LR6-60PB-305M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	285	209.5	290	213.2	295	216.8	300	220.5	305	224.2
Open Circuit Voltage (Voc/V)	39.5	36.5	39.7	36.7	39.9	36.9	40.1	37.1	40.2	37.2
Short Circuit Current (Isc/A)	9.46	7.62	9.58	7.72	9.69	7.81	9.81	7.91	9.94	8.01
Voltage at Maximum Power (Vmp/V)	32.1	29.5	32.3	29.7	32.6	29.9	32.8	30.1	33.0	30.3
Current at Maximum Power (Imp/A)	8.88	7.10	8.98	7.18	9.05	7.24	9.15	7.32	9.24	7.39
Module Efficiency(%)	17.4		17.7		18.0		18.3		18.7	

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

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

Temperature Ratings (STC)

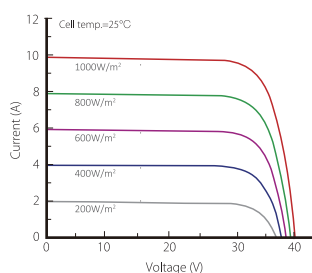
Temperature Coefficient of Isc	+0.057%/C
Temperature Coefficient of Voc	-0.286%/C
Temperature Coefficient of Pmax	-0.380%/C

Mechanical Loading

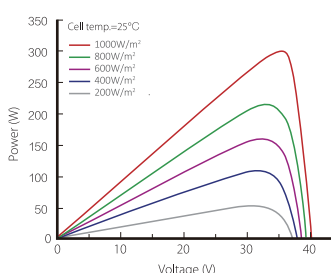
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

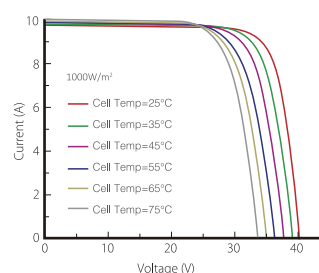
Current-Voltage Curve (LR6-60PB-300M)



Power-Voltage Curve (LR6-60PB-300M)



Current-Voltage Curve (LR6-60PB-300M)



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