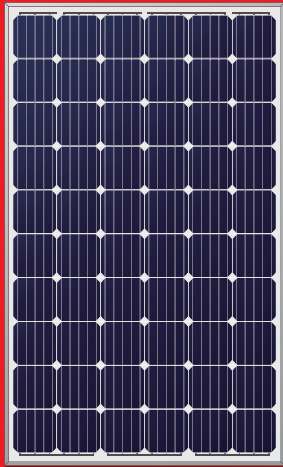
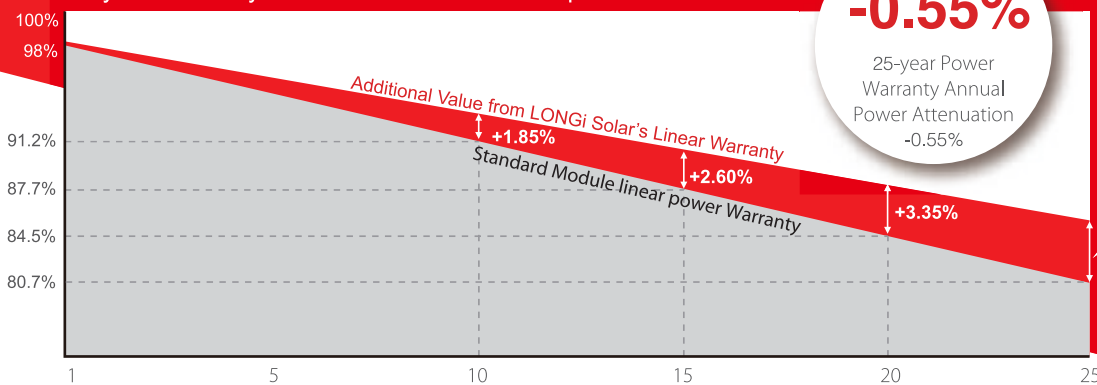


# LR6-60PE 300~320M



**Hi-MO1 High Efficiency  
Low LID Mono PERC 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

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 19.3%)

**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

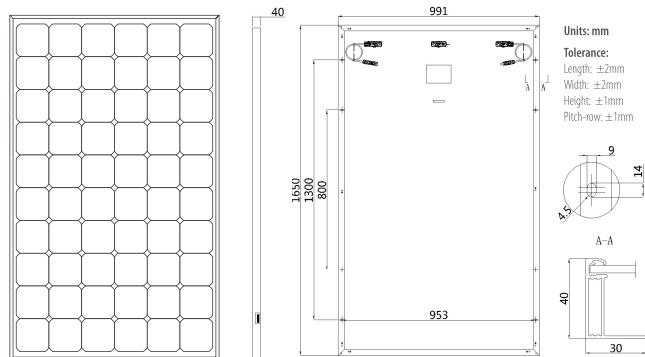
# LONGi Solar

Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203  
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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.

# LR6-60PE 300~320M

## Design (mm)



## Mechanical Parameters

Units: mm  
 Tolerance:  
 Length:  $\pm 2$ mm  
 Width:  $\pm 2$ mm  
 Height:  $\pm 1$ mm  
 Pitch-row:  $\pm 1$ mm

Cell Orientation: 60 (6×10)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, 1000mm in length  
 Glass: 3.2mm coated tempered glass  
 Weight: 18.2kg  
 Dimension: 1650×991×40mm  
 Packaging: 26pcs per pallet  
 156pcs per 20'GP  
 728pcs per 40'HC

## 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	LR6-60PE-300M		LR6-60PE-305M		LR6-60PE-310M		LR6-60PE-315M		LR6-60PE-320M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	300	222.2	305	225.9	310	229.6	315	233.4	320	237.1
Open Circuit Voltage (Voc/V)	39.9	37.2	40.2	37.5	40.5	37.8	40.8	38.1	41.0	38.3
Short Circuit Current (Isc/A)	9.96	8.03	9.99	8.05	10.02	8.08	10.05	8.10	10.14	8.17
Voltage at Maximum Power (Vmp/V)	32.3	29.8	32.7	30.2	33.1	30.6	33.5	30.9	33.7	31.1
Current at Maximum Power (Imp/A)	9.28	7.44	9.33	7.48	9.36	7.51	9.41	7.55	9.50	7.62
Module Efficiency(%)	18.3		18.7		19.0		19.3		19.6	

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 )

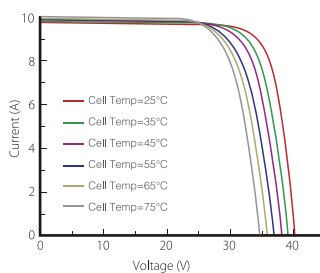
Temperature Coefficient of Isc	+0.057%/C
Temperature Coefficient of Voc	-0.286%/C
Temperature Coefficient of Pmax	-0.370%/C

## Mechanical Loading

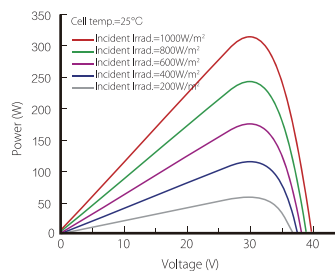
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve

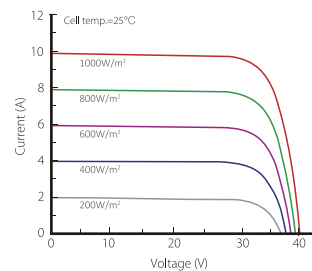
Current-Voltage Curve (LR6-60PE-310M)



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



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



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