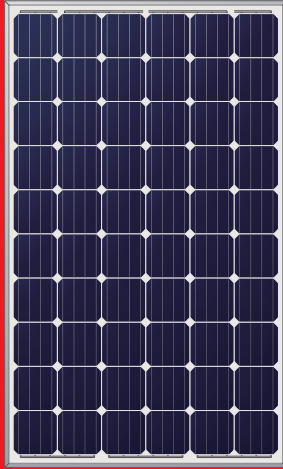


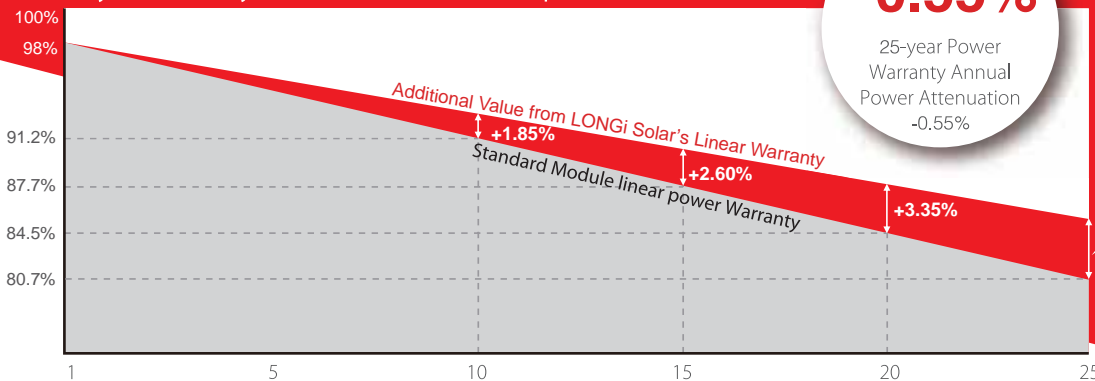
# LR6-60PE 285~305W



## Hi-MO 1 Top Runner in PV industry High efficiency Low LID High Reliability

LONGi Solar mono module products with high efficiency and high reliability can reach the highest output power of 305W. The most advanced module manufacturing technologies are applied to get lower OPCT and excellent performance at low irradiance and to ensure the power generation and investment revenue for customs.

10-year Warranty for Materials and Processing;  
25-year Warranty for Extra linear Power Output



### Complete System and Product Certifications

- IEC 61215, IEC 61730, UL 1703, CQC, CE
- ISO 9001: 2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Management System
- OHSAS 18001: 2007 Occupational Health and Safety Management System



### Positive Power Tolerance

0 ~ +5W positive tolerance of maximal output power guaranteed.

### High Conversion Efficiency

The highest efficiency up to 18.7%.

### Excellent Performance in Low Irradiance Condition

Outstanding power output in low irradiance condition: dawn, dusk and rainy days, etc.

### Anti-PID

Anti-PID technologies of both cell and module are applied to ensure the excellent anti-PID performance.

### Adaptability to Harsh Environments

Excellent weather resistance: salt spray resistance, ammonia resistance, etc.

### Robust Frame, 40mm Thickness

Good pressure resistance, be able to hold 2400Pa wind pressure and 5400Pa snow pressure

\*Specifications subject to technical changes and tests. LONGi Solar reserves the right of final interpretation.

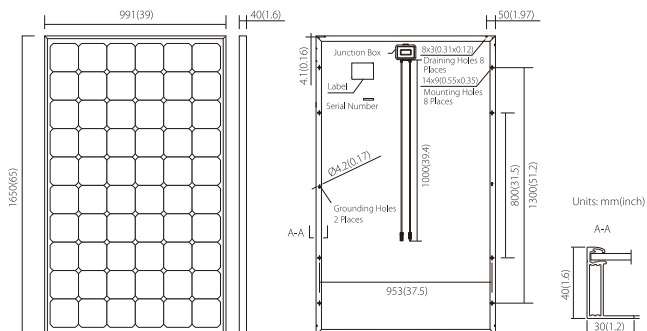
# LONGi Solar

Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong New District, Shanghai, 201203  
Tel: 86-21-61047332 Fax: 86-21-61047377 Email: module@longi-silicon.com

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 285~305W

## Design Paper (mm)



## Mechanical Parameters

Number of cells: 60 (6 × 10)  
 Junction Box: IP67, 3diodes  
 Output Cable:  $\phi = 4\text{mm}^2$ , L=1000mm,  
 Connector: MC4 or compatible with MC4  
 Weight: 18.2kg  
 Dimension: 1650 × 991 × 40mm  
 Package: 26pcs per pallet

## Operating Parameters

Operating Temperature: -40 ~ +85°C  
 Power Tolerance: 0 ~ +5 W  
 Max System Voltage: DC1000V (IEC)  
 Max Fuse Current: 15A  
 NOCT: 45 ± 2°C  
 Application Class: Class A

## Electrical Characteristics

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

STC (Standard Testing Condition) : Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

NOCT (Nominal Operating Cell Temperature) : Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

## Temperature Coefficient (STC)

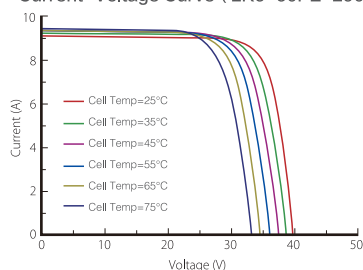
Temperature coefficient of Isc: +0.059%/°C  
 Temperature coefficient of Voc: -0.300%/°C  
 Temperature coefficient of Pmax: -0.390%/°C

## Load

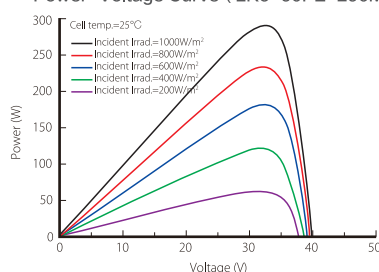
Maximum Front Static Load (Wind or Snow): 5400pa  
 Maximum Rear Static Load (Wind): 2400pa  
 Hailstone Test: 25mm Hailstone at the speed of 23m/s

## I-V Curve

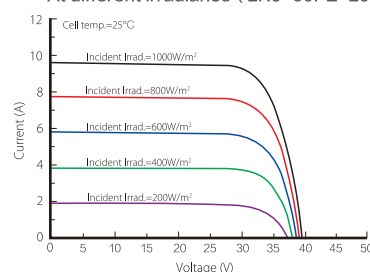
Current-Voltage Curve (LR6-60PE-290M)



Power-Voltage Curve (LR6-60PE-290M)



At different irradiance (LR6-60PE-290M)



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