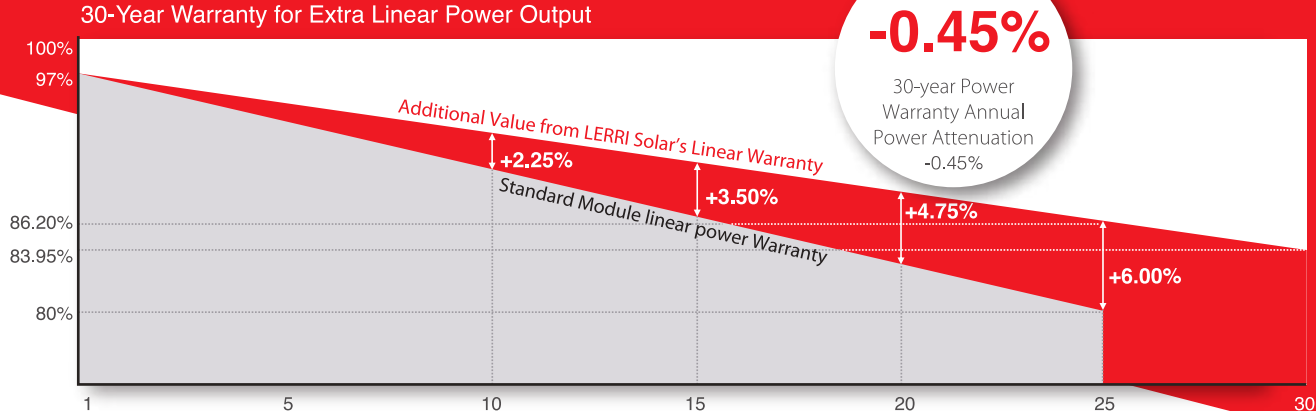


# LR6-60PD 285~305W

## Reliability, Excellent Quality and High Power Output

LERRI mono double glass (DG) PV modules increase the reliability and stability to a brand new level. With high efficiency, low operating temperature and excellence in low irradiance, the frameless design is applied to provide quick and easy installation and low earthing cost, we promise to provide high-efficiency, high power output Mono-crystalline silicon products, thus guarantee the return on investment.

10-Year Warranty for Materials and Processing;  
30-Year Warranty for Extra Linear Power Output



### Complete System and Product Certifications

- IEC61215, IEC61730, UL1703, 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



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

# LONGI Solar

### Positive Power Tolerance

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

### High Conversion Efficiency

The highest efficiency up to 18.7%

### Good Performance in Low Irradiance

Excellent power generation in low radiation provides better performance in dawn, dusk and no-sun days to create more value for customers.

### Anti-PID

Anti-PID materials are applied to meet the strict testing requirements as per ICE62804 and make the mono PV modules against the PID to effectively ensure the system's power generation and investment income for customers.

### Excellent Weather-proofness Increases the Lifespan of the PV Modules.

Double glasses are not impermeable, which are not degradable during the long term outdoor usage and well against the salt mist, acid and alkaline substances, sand and dust. Double glasses can undertake 1500V system voltage and has good capability against hot spot effect.

### Cracking-proof

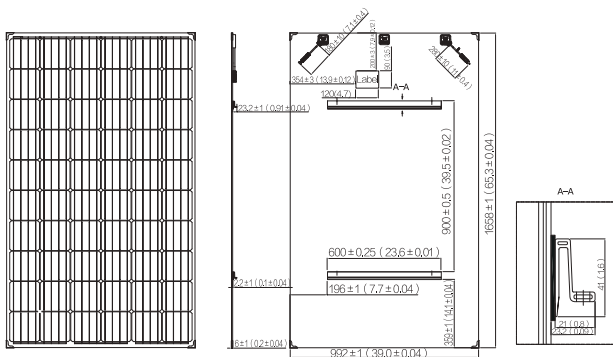
The maximal deformation is 60% of the regular PV modules. There is almost no crack during production, carriage and installation, etc.

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. Lerrri 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.

# LR6-60PD 285~305W

## Mechanical Detail (mm)



## Mechanical Parameters

**Number of Cells:** 60 (  $6 \times 10$  )

**Junction Box:** IP 67, three diodes

**Output Cable:** 4mm<sup>2</sup> , 1000mm inlength

**Connector:** MC4 or compatible with MC4

Weight: 23.5kg

**Dimension:** 1658 × 992 × 6mm

**Packaging:** 30 pcs per pallet

## Operating Parameters

Operating Temperature:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Power Tolerance: 0~+5 Wp

**Maximum System Voltage (V):** DC1500V (IEC)

Maximum Series Fuse Rating: 15A

NOCT:  $45 \pm 2^\circ\text{C}$

Application Class: Class A

## Electrical Characteristics

| Type                               | LR6-60PD-285M |       | LR6-60PD-290M |       | LR6-60PD-295M |       | LR6-60PD-300M |       | LR6-60PD-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/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

## Temp. Coefficient (STC Testing)

Temperature Coefficient of Isc +0.059%/°C

Temperature Coefficient of Voc  $-0.330\%/^{\circ}\text{C}$ 

Temperature Coefficient of Pmax -0.410%/°C

## Load

Maximum Front Static Load (Wind or Snow)

5400pa

Maximum Rear Static Load (Wind)

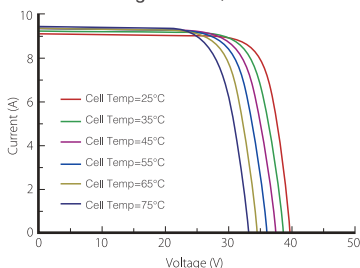
2400pa

## Hailstone Test

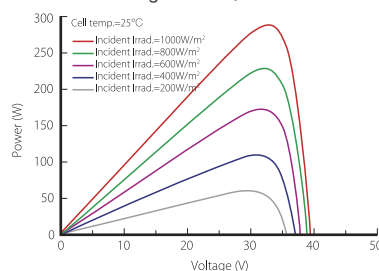
25mm Hailstone at the speed of 23m/s

## I-V Curve

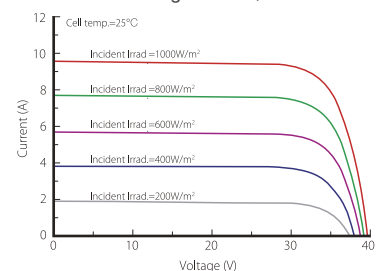
Current-Voltage Curve ( LR6-60PD-290M )



Power –Voltage Curve ( LR6-60PD-290M )



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



Declaration: Due to the continuous technical innovation, research and improvement, the specifications may be deviated from the actual technical data and are subject to change without prior notice. Customers shall request the lasted technical data sheets of the LERRI mono PV modules when the deals are concluded, which are deemed as part of the binding contracts signed by both parties.



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