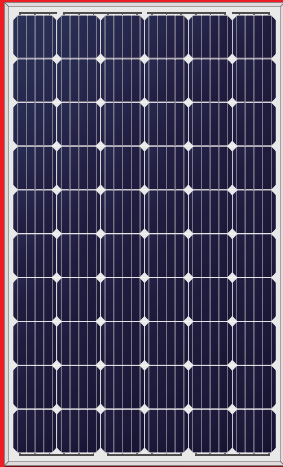
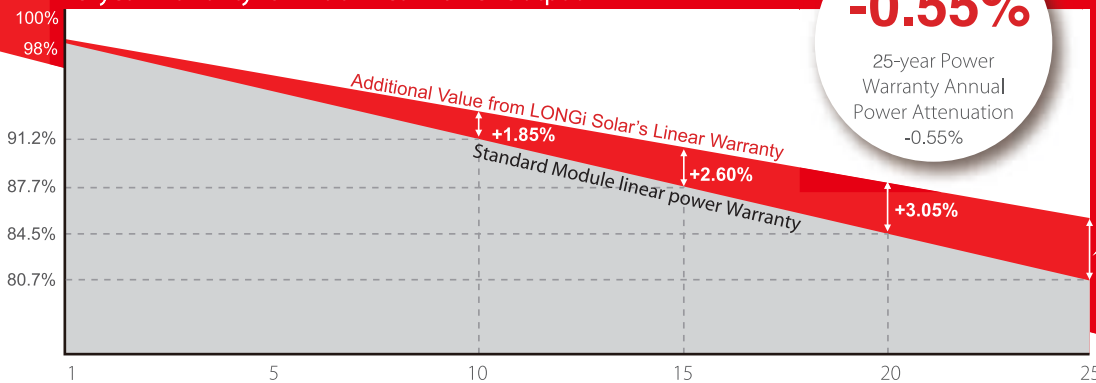


# LR6-60 285~305M



**High Efficiency Mono Technology**  
with advanced 5BB design to improve  
power output

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%)

**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

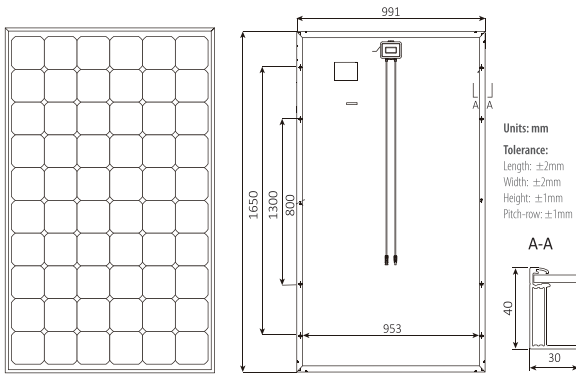
# LONGi Solar

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

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.

# LR6-60 285~305M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 60 (6×10)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, 1000mm in length  
 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&UL)  
 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	LR6-60-285M		LR6-60-290M		LR6-60-295M		LR6-60-300M		LR6-60-305M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	285	209.0	290	212.7	295	216.4	300	220.1	305	223.7
Open Circuit Voltage (Voc/V)	38.6	35.7	38.8	35.9	38.9	36.0	39.1	36.2	39.3	36.4
Short Circuit Current (Isc/A)	9.59	7.76	9.71	7.86	9.85	7.97	9.96	8.06	10.05	8.13
Voltage at Maximum Power (Vmp/V)	31.5	28.9	31.7	29.1	31.8	29.2	31.9	29.3	32.1	29.5
Current at Maximum Power (Imp/A)	9.05	7.24	9.15	7.32	9.28	7.42	9.40	7.52	9.49	7.59
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

## Temperature Ratings ( STC )

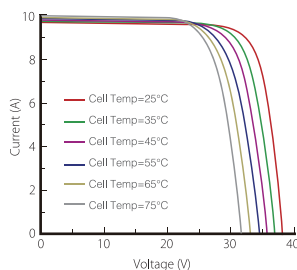
Temperature Coefficient of Isc: +0.059%/C  
 Temperature Coefficient of Voc: -0.330%/C  
 Temperature Coefficient of Pmax: -0.410%/C

## Mechanical Loading

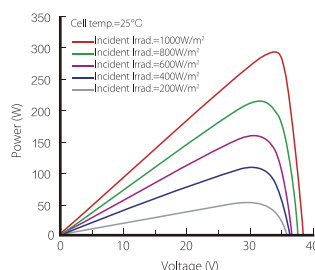
Front Side Maximum Static Loading: 5400Pa  
 Rear Side Maximum Static Loading: 2400Pa  
 Hailstone Test: 25mm Hailstone at the speed of 23m/s

## I-V Curve

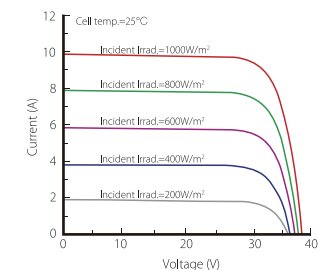
Current-Voltage Curve (LR6-60-295M)



Power-Voltage Curve (LR6-60-295M)



Current-Voltage Curve (LR6-60-295M)



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