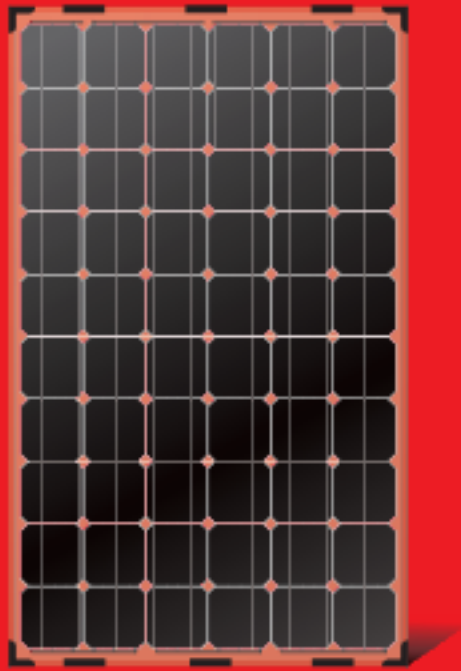
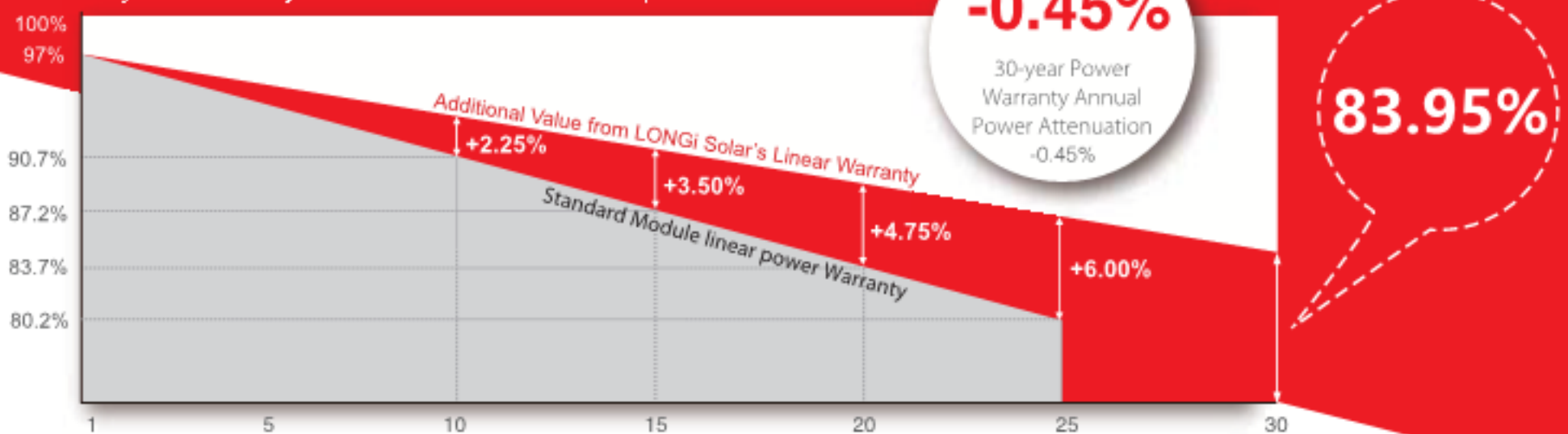


# LR6-60DG 275~295M



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

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



**-0.45%**

30-year Power  
Warranty Annual  
Power Attenuation  
-0.45%

**83.95%**

## 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 18.0%)

**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

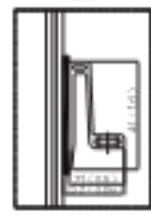
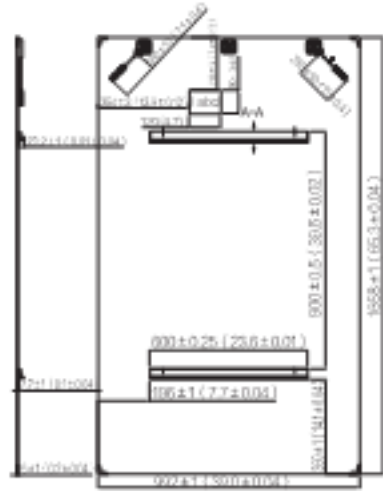
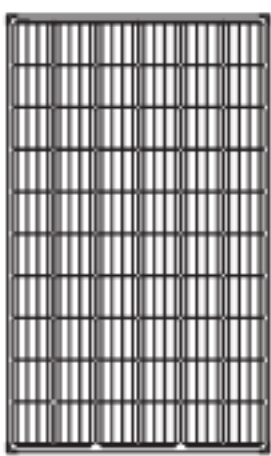
# LONGi Solar

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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.

# LR6-60DG 275~295M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 60 (6×10)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, positive pole 280mm,  
 negative pole 180mm  
 Connector: MC4 or MC4 compatible  
 Weight: 23.5kg  
 Dimension: 1658×992×6mm  
 Packaging: 30pcs per pallet

## Operating Parameters

Operational Temperature: -40 °C ~ +85 °C  
 Power Output Tolerance: 0 ~ +5 W  
 Maximum System Voltage: DC1500V (IEC)  
 Maximum Series Fuse Rating: 15A  
 Nominal Operating Cell Temperature: 45±2 °C  
 Application Class: Class A

## Electrical Characteristics

Model Number	LR6-60DG-275M		LR6-60DG-280M		LR6-60DG-285M		LR6-60DG-290M		LR6-60DG-295M	
	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)	275	202.1	280	205.8	285	209.5	290	213.2	295	216.8
Open Circuit Voltage (Voc/V)	38.3	35.4	38.5	35.6	38.6	35.7	38.8	35.9	38.9	36.0
Short Circuit Current (Isc/A)	9.32	7.51	9.45	7.61	9.59	7.73	9.71	7.82	9.85	7.94
Voltage at Maximum Power (Vmp/V)	31.2	28.7	31.4	28.8	31.5	28.9	31.7	29.1	31.8	29.2
Current at Maximum Power (Imp/A)	8.79	7.03	8.92	7.14	9.05	7.24	9.15	7.32	9.28	7.42
Module Efficiency(%)	16.8		17.1		17.4		17.7		18.0	
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 )

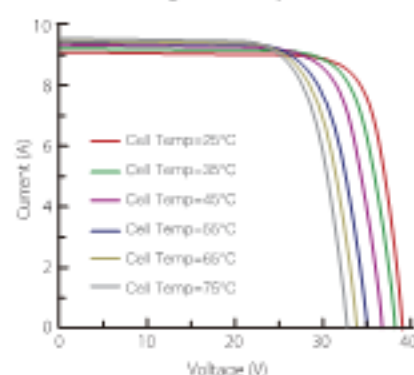
Temperature Coefficient of Isc	+0.059%/°C
Temperature Coefficient of Voc	-0.330%/°C
Temperature Coefficient of Pmax	-0.410%/°C

## Mechanical Loading

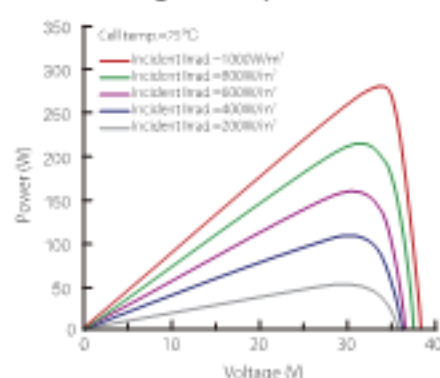
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve

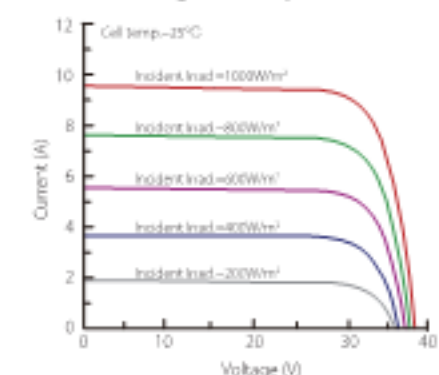
Current-Voltage Curve (LR6-60DG-285M)



Power-Voltage Curve (LR6-60DG-285M)



Current-Voltage Curve (LR6-60DG-285M)



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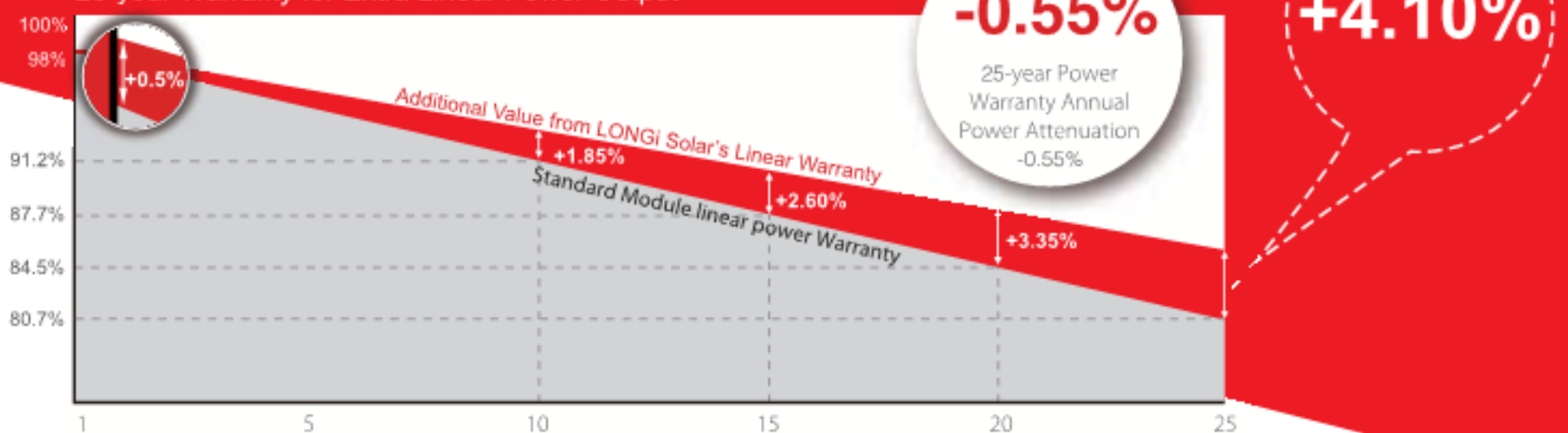
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# LR6-60PH 290~310M



**Hi-MO1 High Efficiency Low  
LID Mono PERC Technology  
(1500V Compatible)**

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



## 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 19.0%)

**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

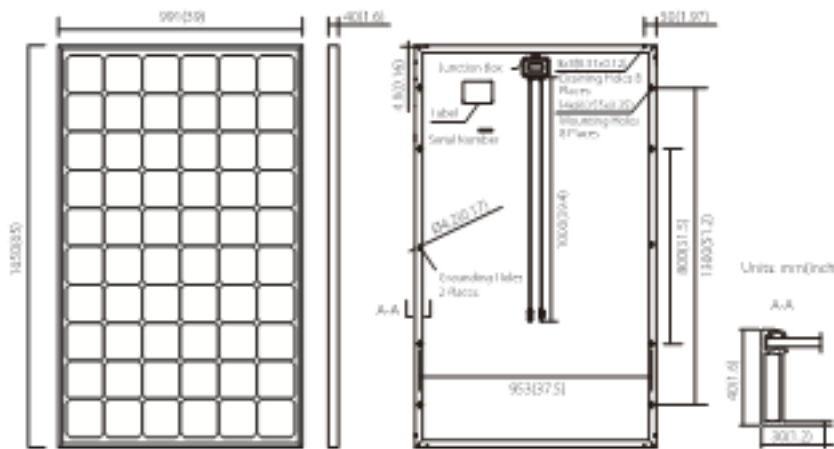
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# LR6-60PH 290~310M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 60° (6×10)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, 1000mm in length  
 Connector: MC4 or MC4 compatible  
 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: DC1500V (IEC)  
 Maximum Series Fuse Rating: 15A  
 Nominal Operating Cell Temperature: 45±2°C  
 Application Class: Class A

## Electrical Characteristics

Model Number	LR6-60PH-290M		LR6-60PH-295M		LR6-60PH-300M		LR6-60PH-305M		LR6-60PH-310M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition										
Maximum Power (P <sub>max</sub> /W)	290	213.2	295	216.8	300	220.5	305	224.2	310	227.9
Open Circuit Voltage (V <sub>oc</sub> /V)	39.7	36.7	39.9	36.9	40.1	37.1	40.2	37.2	40.3	37.3
Short Circuit Current (I <sub>sc</sub> /A)	9.58	7.72	9.69	7.81	9.81	7.91	9.94	8.01	9.98	8.04
Voltage at Maximum Power (V <sub>mp</sub> /V)	32.3	29.7	32.6	29.9	32.8	30.1	33.0	30.3	33.2	30.5
Current at Maximum Power (I <sub>mp</sub> /A)	8.98	7.18	9.05	7.24	9.15	7.32	9.24	7.39	9.35	7.48
Module Efficiency(%)	17.7		18.0		18.3		18.7		19.0	
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 )

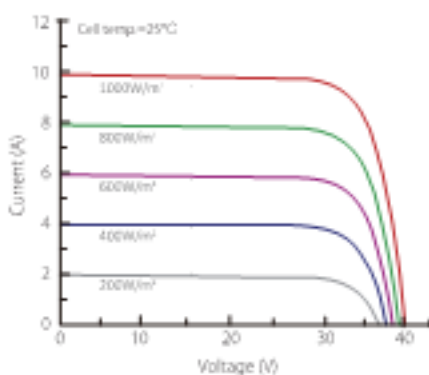
Temperature Coefficient of I <sub>sc</sub>	+0.057%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.286%/°C
Temperature Coefficient of P <sub>max</sub>	-0.380%/°C

## Mechanical Loading

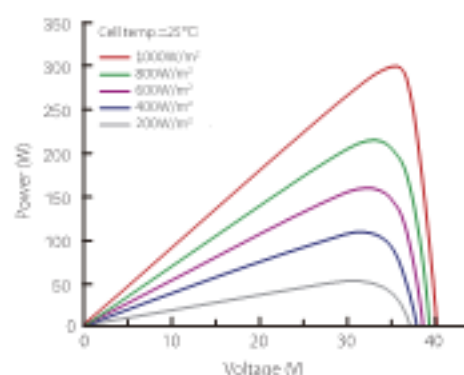
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve

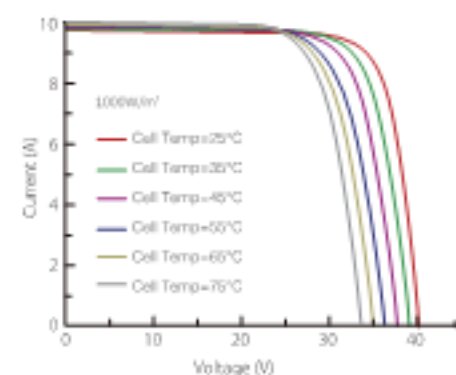
Current-Voltage Curve (LR6-60PH-300M)



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



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



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