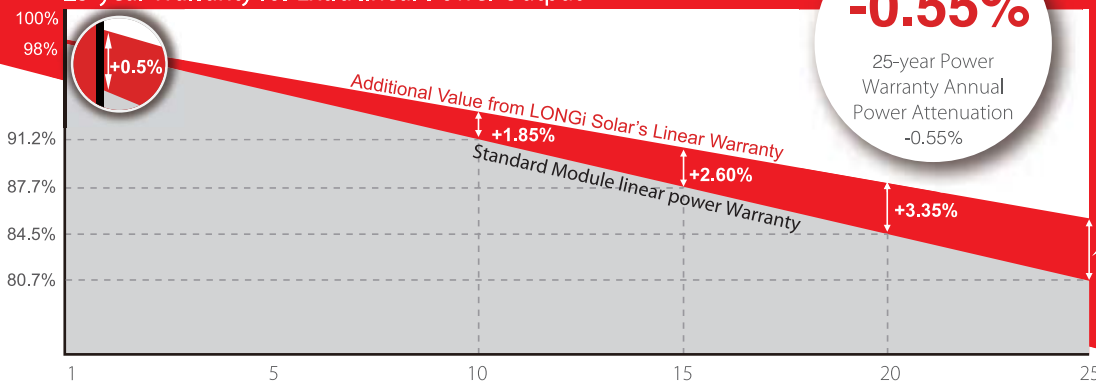


LR6-60PE 290~310M



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, 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

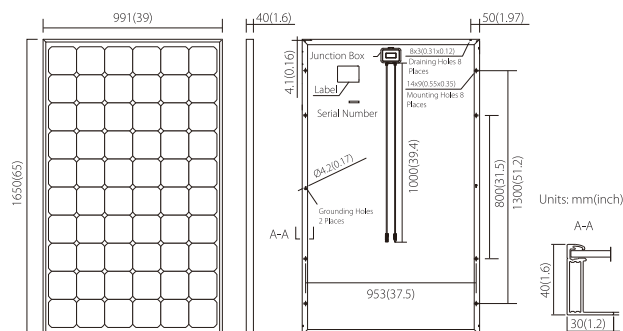
LONGi Solar

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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.

LR6-60PE 290~310M

Design (mm)



Cell Orientation: 60 (6×10)

Junction Box: IP67, three diodes

Output Cable: 4mm², 1000mm in length

Connector: MC4 or MC4 compatible

Weight: 18.2kg

Dimension: 1650×991×40mm

Packaging: 26pcs per pallet

Operational Temperature: -40 °C ~ +85 °C

Power Output Tolerance: 0 ~ +5 W

Maximum System Voltage: DC1000V (IEC)

Maximum Series Fuse Rating: 15A

Nominal Operating Cell Temperature: 45±2 °C

Application Class: Class A

Electrical Characteristics

Model Number	LR6-60PE-290M		LR6-60PE-295M		LR6-60PE-300M		LR6-60PE-305M		LR6-60PE-310M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	290	213.2	295	216.8	300	220.5	305	224.2	310	227.9
Open Circuit Voltage (V _{oc} /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 _{sc} /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 _{mp} /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 _{mp} /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/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/s

Temperature Ratings (STC)

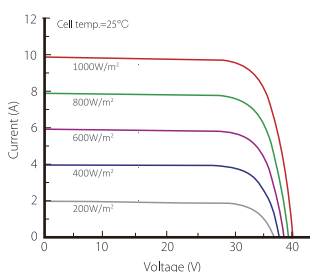
Temperature Coefficient of I _{sc}	+0.057%/°C
Temperature Coefficient of V _{oc}	-0.286%/°C
Temperature Coefficient of P _{max}	-0.380%/°C

Mechanical Loading

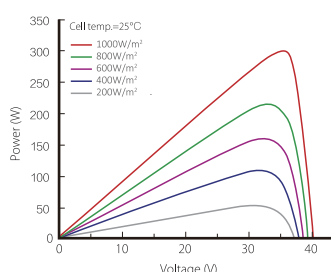
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

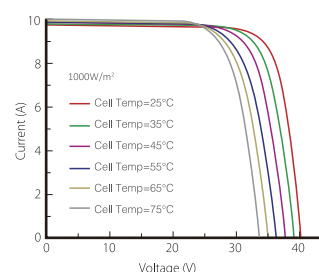
Current-Voltage Curve (LR6-60PE-300M)



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



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



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