

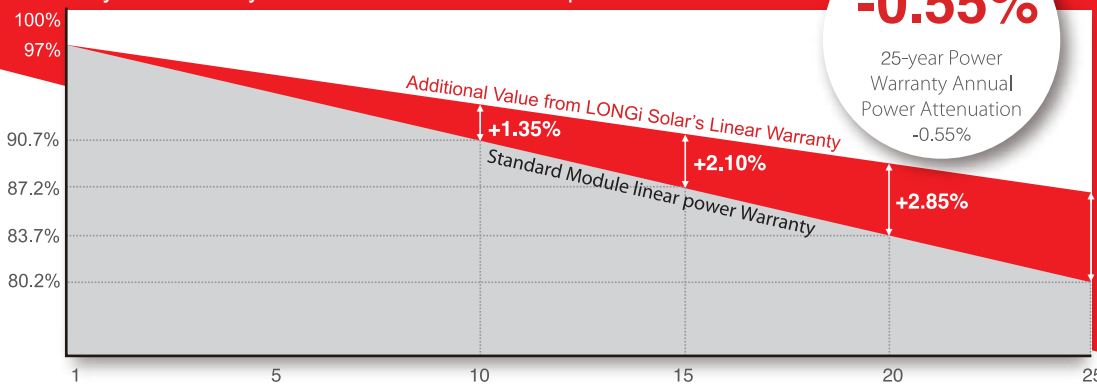
LR6-60BK 275~295M



**High Efficiency Mono Technology
(60C/All Black Module)**
with advanced 5BB design to improve
power output

*Aesthetic appearance with black frame and
backsheet, best suited for rooftop installation*

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%

+3.60%

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

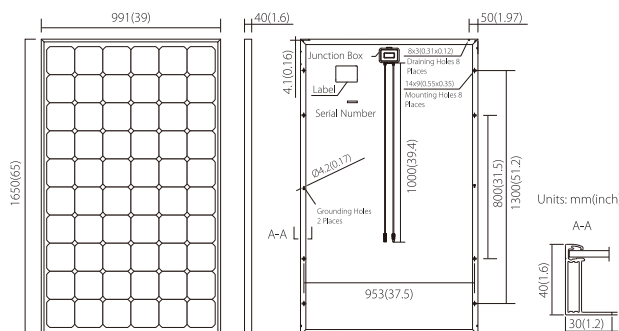
LONGi Solar

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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.

LR6-60BK 275~295M

Design (mm)



Mechanical Parameters

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

Operating Parameters

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	LR6-60BK-275M		LR6-60BK-280M		LR6-60BK-285M		LR6-60BK-290M		LR6-60BK-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 (P _{max} /W)	275	202.1	280	205.8	285	209.5	290	213.2	295	216.8
Open Circuit Voltage (V _{oc} /V)	38.3	35.4	38.5	35.6	38.6	35.7	38.8	35.9	38.9	36.0
Short Circuit Current (I _{sc} /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 (V _{mp} /V)	31.3	28.7	31.4	28.8	31.5	28.9	31.7	29.1	31.8	29.2
Current at Maximum Power (I _{mp} /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/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)

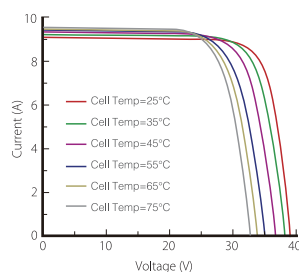
Temperature Coefficient of I _{sc}	+0.059%/°C
Temperature Coefficient of V _{oc}	-0.330%/°C
Temperature Coefficient of P _{max}	-0.410%/°C

Mechanical Loading

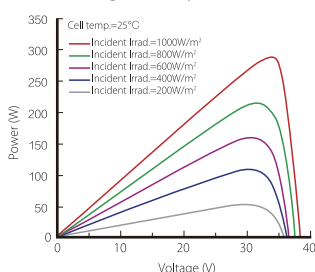
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

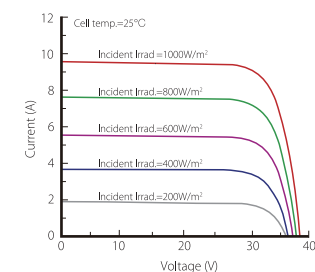
Current-Voltage Curve (LR6-60BK-290M)



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



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



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