

LR6-60BK 270~290W



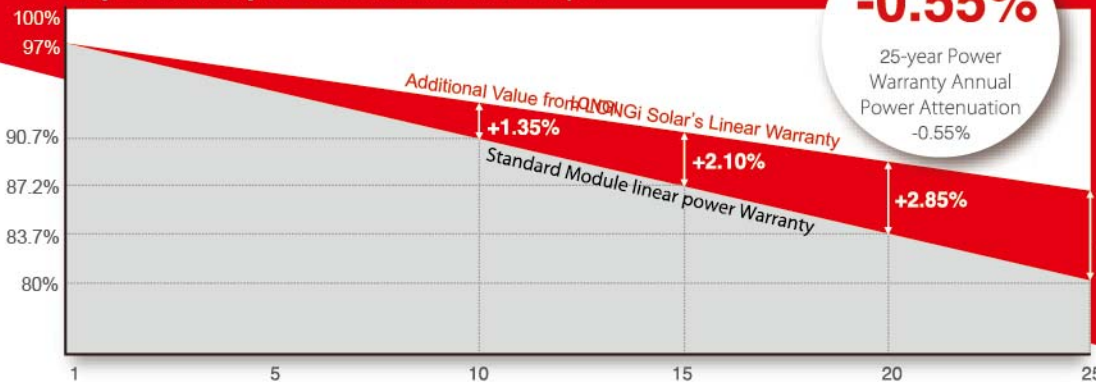
Superior and special appearance

Black frame and backsheet suited for residential, commercial and utility applications.

Outstanding low-irradiance performance

Outstanding performance in low-light irradiance environments with special cell and module 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%

+3.80%

Complete System and Product Certifications

IEC 61215, IEC 61730, JET, CQC, CE

ISO 9001: 2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

OHSAS 18001: 2007 Occupational Health and Safety



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

Positive Power Tolerance

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

High Conversion Efficiency

The highest efficiency up to 17.7% .

Excellent Performance in Low irradiance

Outstanding power output in low irradiance conditions, such as dawn, dusk and cloudy days.

Anti-PID

Anti-PID techniques of processing solar cells and encapsulating modules applied; adaptable for the installation in hot and highly humid areas.

Adaptability to the Harsh Environments

Excellent anti salt mist and anti-ammonia capability and is adaptable to the harsh environments, such as seaside and farms.

Super Robust Frame, 40mm Thickness

Good pressure resistance and able to bear 2400Pa wind load and 5400Pa snow load.

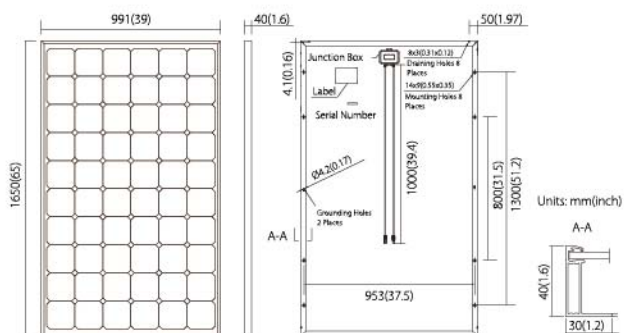
LONGi Solar

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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.

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Mechanical Detail (mm)



Mechanical Parameters

Number of Cells: 60 (6×10)
 Junction Box: IP67, three diodes
 Output Cable: 4mm², 1000mm in length
 Connector: MC4 or compatible with MC4
 Weight: 18.2kg
 Dimension: 1650×991×40mm
 Packaging: 26pcs per pallet

Operating Parameters

Operating Temperature: -40°C~+85°C
 Power Tolerance: 0~+5W
 Maximum System Voltage(V): DC1000V (IEC)
 Maximum Series Fuse Rating: 15A
 NOCT: 45°C±2°C
 Application Class: Class A

Electrical Characteristics

Type	LR6-60BK-270M		LR6-60BK-275M		LR6-60BK-280M		LR6-60BK-285M		LR6-60BK-290M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	270	198.5	275	202.1	280	205.8	285	209.5	290	213.2
Open Circuit Voltage (V _{oc} /V)	38.1	35.2	38.3	35.4	38.5	35.6	38.6	35.7	38.8	35.9
Short Circuit Current (I _{sc} /A)	9.20	7.42	9.32	7.51	9.45	7.61	9.59	7.73	9.71	7.82
Voltage at Maximum Power (V _{mp} /V)	31.1	28.6	31.3	28.7	31.4	28.8	31.5	28.9	31.7	29.1
Current at Maximum Power (I _{mp} /A)	8.68	6.94	8.79	7.03	8.92	7.14	9.05	7.24	9.15	7.32
Module Efficiency (%)	16.5	/	16.8	/	17.1	/	17.4	/	17.7	/

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

Temp. Coefficient (STC Testing)

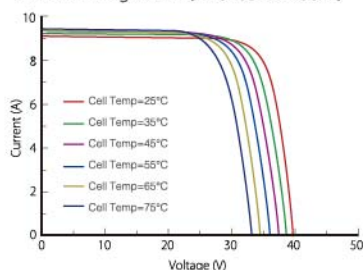
Temperature Coefficient of I_{sc}: +0.059% /°C
 Temperature Coefficient of V_{oc}: -0.330% /°C
 Temperature Coefficient of P_{max}: -0.410% /°C

Load

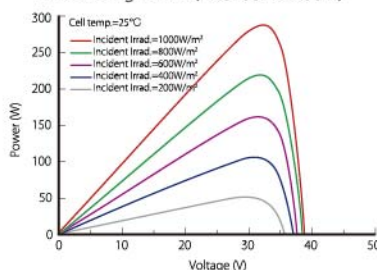
Maximum Front Static Load (Snow): 5400Pa
 Maximum Rear Static Load (Wind): 2400Pa
 Pass the Hailstone Test: 25mm Hailstone at the speed of 23m/s

I-V Curve

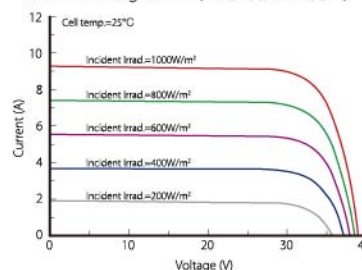
Current-Voltage Curve (LR6-60BK-280M)



Power-Voltage Curve (LR6-60BK-280M)



Current-Voltage Curve (LR6-60BK-280M)



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