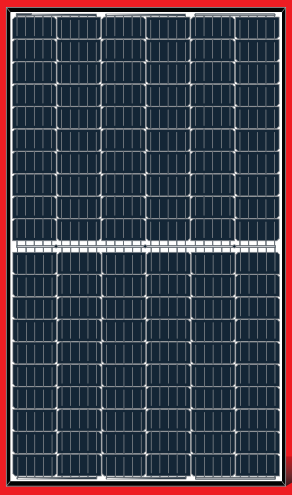
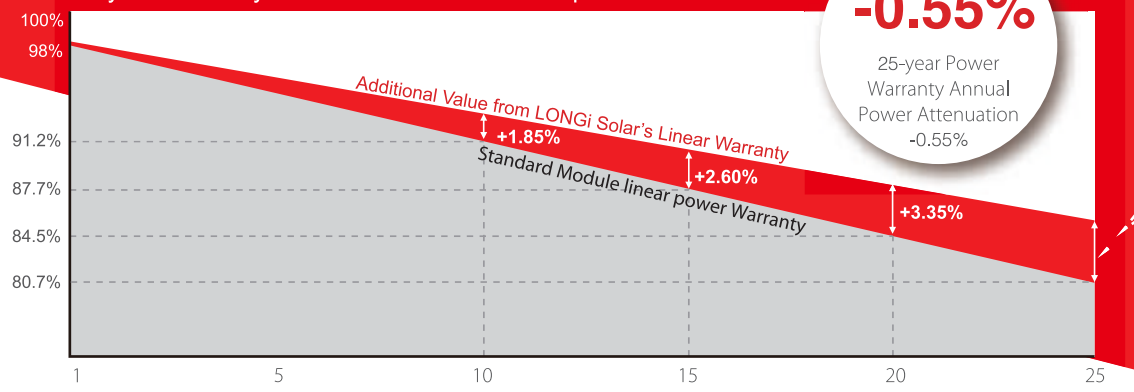
LR6-60HPH
300~320M

High Efficiency Low LID Mono PERC with Half-cut 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

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 19.3%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

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

Outstanding low light performance average relative efficiency 97.5% or better at 200W/m^2

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

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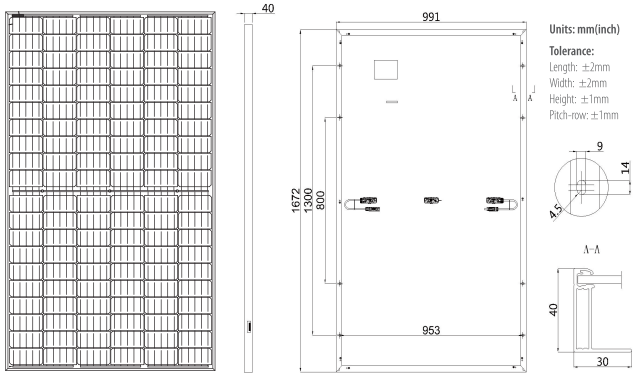
20190115

LR6-60HPH 300~320M

Design （mm）



Mechanical Parameters

Cell Orientation: 120（6×20）

Junction Box: IP67, three diodes

Output Cable: 4mm², 300mm in length

Glass: 3.2mm coated tempered glass

Weight: 19kg

Dimension: 1672×991×40mm

Packaging: 26pcs per pallet

156pcs per 20'GP

676pcs per 40'HC

Operating Parameters

Operational Temperature: -40℃~+85℃

Power Output Tolerance: 0~+5 W

Voc and Isc Tolerance: ±3%

Maximum System Voltage: DC1500V (IEC)

Maximum Series Fuse Rating: 20A

Nominal Operating Cell Temperature: 45±2℃

Safety Class: Class II

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR6-60HPH-300M		LR6-60HPH-305M		LR6-60HPH-310M		LR6-60HPH-315M		LR6-60HPH-320M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	300	222.2	305	225.9	310	229.6	315	233.4	320	237.1
Open Circuit Voltage (Voc/V)	39.8	37.1	40.1	37.4	40.3	37.7	40.6	37.9	40.9	38.2
Short Circuit Current (Isc/A)	9.70	7.82	9.78	7.88	9.86	7.94	9.94	8.01	10.02	8.08
Voltage at Maximum Power (Vmp/V)	32.9	30.4	33.1	30.6	33.3	30.8	33.7	31.1	33.9	31.3
Current at Maximum Power (Imp/A)	9.13	7.32	9.21	7.38	9.30	7.46	9.36	7.50	9.43	7.56
Module Efficiency(%)	18.1		18.4		18.7		19.0		19.3	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25℃, Spectra at AM1.5

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

Temperature Ratings（STC）

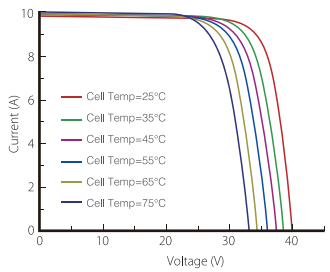
Temperature Coefficient of Isc	+0.057%/℃
Temperature Coefficient of Voc	-0.286%/℃
Temperature Coefficient of Pmax	-0.370%/℃

Mechanical Loading

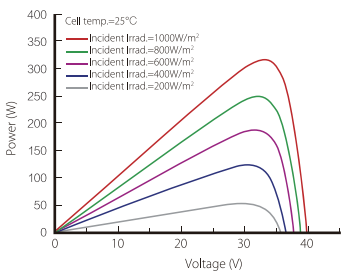
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

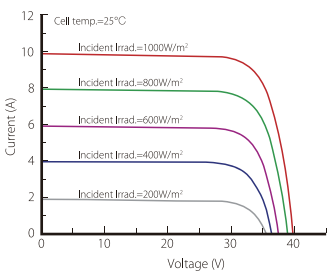
Current-Voltage Curve (LR6-60HPH-310M)



Power-Voltage Curve (LR6-60HPH-310M)



Current-Voltage Curve (LR6-60HPH-310M)



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