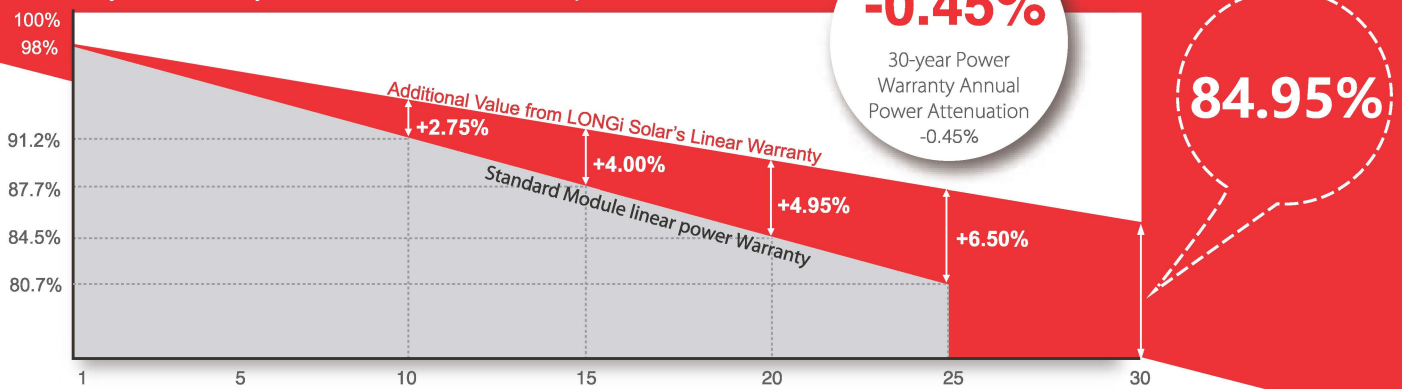


# LR6-72HBD 370~390M

Hi-MO 3

**High Efficiency  
Low LID Bifacial PERC with  
Half-cut Technology**

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



## Complete System and Product Certifications

IEC 61215, IEC 61730, UL 1703  
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.

## Front side performance equivalent to conventional low LID mono PERC:

- High module conversion efficiency (up to 19.4%)
- Better energy yield with excellent low irradiance performance and temperature coefficient
- First year power degradation <2%

## Bifacial technology enables additional energy harvesting from rear side (up to 25%)

**Glass/glass lamination** ensures 30 year product lifetime, with annual power degradation < 0.45%, 1500V compatible to reduce BOS cost

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**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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• These Modules are not offered, distributed or supplied to Germany by the LONGi Group.  
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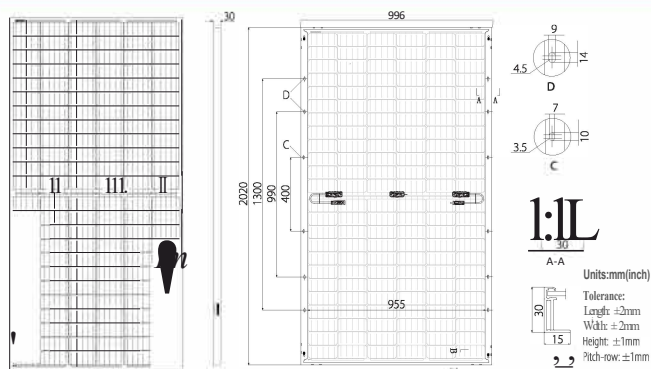
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# LR6-72HBD 370-390M

## Design (mm)

## Mechanical Parameters

## Operating Parameters



Cell Orientation: 144 (6x24)  
 Junction Box: IP67, three diodes  
 Output Cable: 4mm<sup>2</sup>, 300mm in length,  
 length can be customized  
 Glass: Dual glass  
 2.0mm coated tempered glass  
 Frame: Anodized aluminum alloy frame  
 Weight: 26.3kg  
 Dimension: 2020x996x30mm  
 Packaging: 35pcs per pallet  
 175pcs per 20'GP  
 770pcs per 40'HC

Operational Temperature: -40 C ~ +85 C  
 Power Output Tolerance: 0~+5 W  
 Voc and Isc Tolerance: ±3%  
 Maximum System Voltage: DC1500V (IEC/UL)  
 Maximum Series Fuse Rating: 20A  
 Nominal Operating Cell Temperature: 45±2 C  
 Safety Class: Class I  
 Fire Rating: UL type 3  
 Bifaciality: Glazing 70±5%

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR6-72H BD-370M		LR6-72HBD-375M		LR6-72H BD-380M		LR6-72HBD-385M		LR6-72HBD-390M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	370	275.1	375	278.8	380	282.6	385	286.3	390	290.0
Open Circuit Voltage (Voc/V)	48.1	44.8	48.3	45.0	48.5	45.2	48.7	45.4	49.1	45.7
Short Circuit Current (Isc/A)	9.80	7.93	9.87	7.99	9.97	8.07	10.03	8.12	10.07	8.15
Voltage at Maximum Power (Vmp/V)	39.8	36.9	40.0	37.1	40.2	37.3	40.4	37.5	40.8	37.9
Current at Maximum Power (Imp/A)	9.30	7.45	9.38	7.51	9.47	7.59	9.53	7.63	9.56	7.66
Module Efficiency(%)	18.4		18.6		18.9		19.1		19.4	
STC (Standard Testing Conditions): Irradiance 1000W/m', Cell Temperature 25 ℃, Spectra at AM1.5										
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m'. Ambient Temperature 20 C . Spectra at AM1.5. Wind at 1m/S										

Electrical characteristics with different rear side power gain (reference to 380W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
399	48.5	10.47	40.2	9.94	5%
418	48.5	10.97	40.2	10.42	10%
437	48.6	11.47	40.3	10.89	15%
456	48.6	11.96	40.3	11.36	20%
475	48.6	12.46	40.3	11.84	25%

## Temperature Ratings (STC)

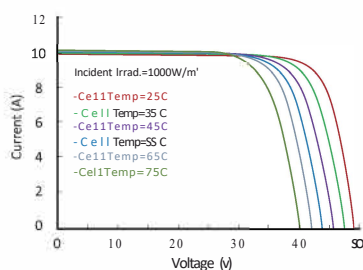
## Mechanical Loading

Temperature Coefficient of Isc	+0.060%/C
Temperature Coefficient of Voc	-0.300%/C
Temperature Coefficient of Pmax	-0.370%/C

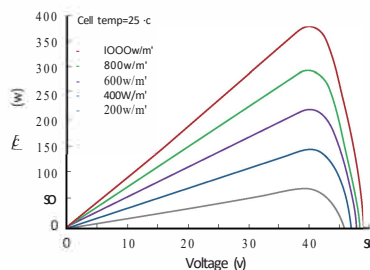
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## 1-V Curve

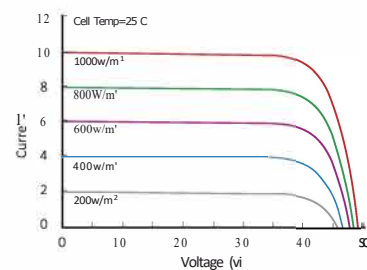
Current-Voltage Curve (LR6-72HBD-380M)



Power-Voltage Curve (LR6-72HBD-380M)



Current-Voltage Curve (LR6-72HBD-380M)



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