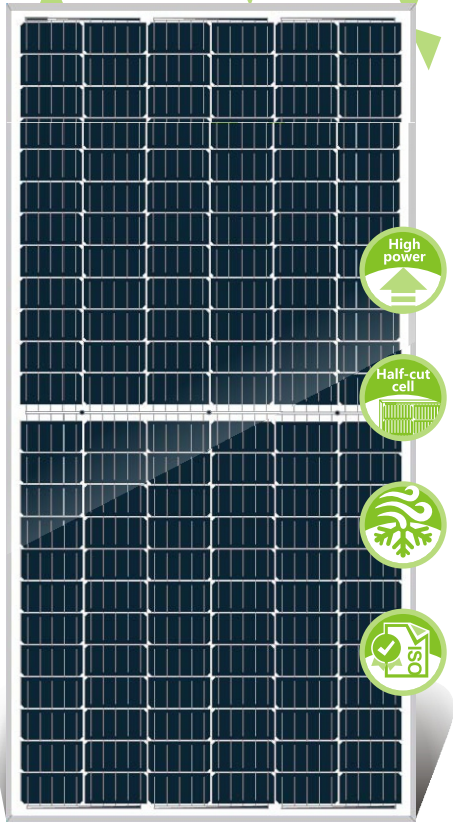


# LHM72HB-158M-5BB 370-390W



## High Efficiency Low LID Mono PERC with Half-cut Technology

### 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%

**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

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

### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001:2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

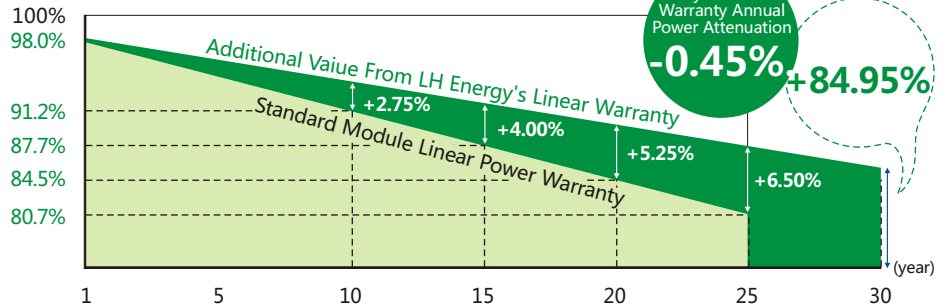
OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests.  
LH Energy reserves the right of interpretation.

Founded in 2010, LH Energy is the world's leading comprehensive solutions provider for solar energy. We believe close cooperation with our partners is critical to success. LH Energy now distributes its PV products to over 60 countries all over the world. LH Energy is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of LH Energy as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

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



LIGHT & HOPE

**COMPANY NAME:** LIGHT & HOPE ENERGY CO.,LTD

**FACTORY ADD:** 88/24-25 MOO 15. BANGSAOTHONG SUB- DISTRICT.

BANGSAOTHONG DISTRICT SAMUT PRAKARN THAILAND 10570

**TAX ID:** 0115562029595 **TEL:** +66 02 0001217 **Email:** sales@lh-solar.com

**Website:** www.lighthopeenergy.com

# LHM72HB-158M-5BB

# 370-390W

## Electrical Characteristics

Model Number	
Testing Condition	
Maximum Power (Pmax/W)	
Open Circuit Voltage (Voc/V)	
Short Circuit Current (Isc/A)	
Voltage at Maximum Power (Vmp/V)	
Current at Maximum Power (Imp/A)	
Module Efficiency (%)	

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

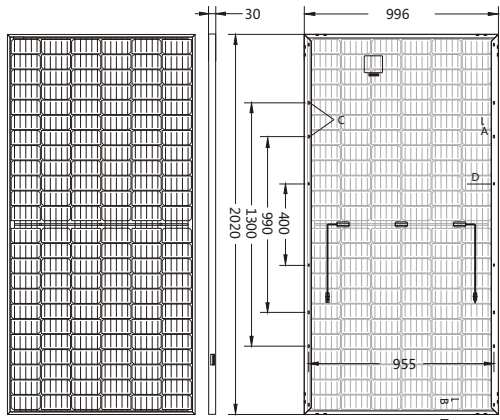
370W		375W		380W		385W		390W	
STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
370	275.1	375	278.8	380	282.6	385	286.3	390	290.0
48.1	44.8	48.3	45.0	48.5	45.2	48.7	45.4	49.1	45.7
9.80	7.93	9.87	7.99	9.97	8.07	10.03	8.12	10.07	8.15
39.8	36.9	40.0	37.1	40.2	37.3	40.1	37.5	40.8	37.9
9.30	7.45	9.38	7.51	9.47	7.59	9.53	7.63	9.56	7.66
18.4		18.6		18.9		19.1		19.4	

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5  
 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, 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%

## Design (mm)



Tolerance : Length: ±2mm, Width: ±2mm, Height: ±1mm, Pitch-row: ±1 mm

## Mechanical 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: 2020×996×30mm  
 Packaging: 35pcs per pallet  
 175pcs per 20'/GP  
 770pcs per 40'/HC

## Operating Parameters

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 II  
 Fire Rating: UL  
 Bifaciality: Glazing 70±5%

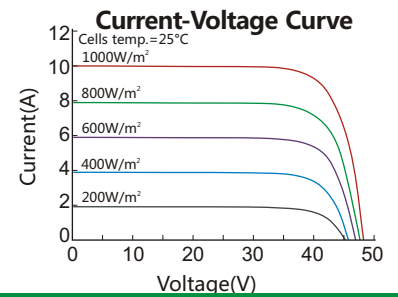
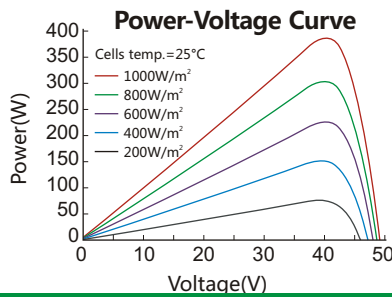
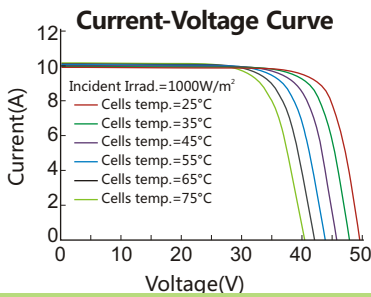
## Temperature Ratings (STC)

Temperature Coefficient of Isc +0.060%/°C  
 Temperature Coefficient of Voc -0.300%/°C  
 Temperature Coefficient of Pmax -0.370%/°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 (LHM72HB-158M-380W)



LIGHT & HOPE

COMPANY NAME: LIGHT & HOPE ENERGY CO.,LTD

FACTORY ADD: 88/24-25 MOO 15. BANGSAOTHONG SUB- DISTRICT. BANGSAOTHONG DISTRICT SAMUT PRAKARN THAILAND 10570

TAX ID: 0115562029595 TEL: +66 02 0001217 Email: sales@lh-solar.com

Website: www.lighthopeenergy.com