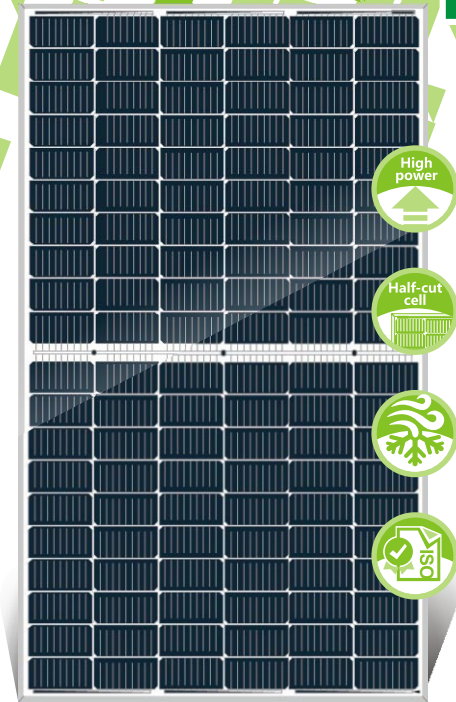


# LHM72H-158M-9BB 390-415W



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

### High power output

- Multi busbar technology combined with mono PERC cells
- Reduced BOS costs with higher power bins and 1,500V system voltage
- Consistently high bankability ratings by BNEF, banks and investors

### Half-cut cell design brings higher efficiency

- Optimized power output under inter-row shading conditions
- Low thermal coefficients for higher energy yield at elevated operating temperatures
- Reduced interconnection losses

### Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 2x 100% inline EL inspection

### Certified to withstand challenging environmental conditions

- Salt Mist Corrosion
- Ammonia Corrosion
- Blowing Sand

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.

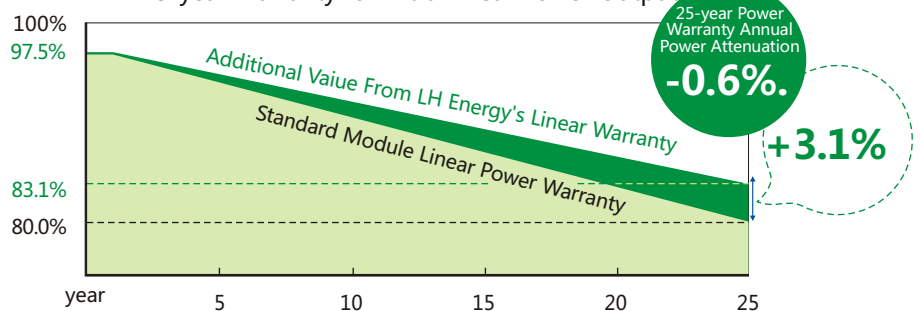
### Comprehensive Product and System Certificates

IEC 61215, IEC 61730, UL 1703  
IEC 61701 Salt Mist Corrosion  
IEC 62716 Ammonia Corrosion  
IEC 60068 Blowing Sand  
ISO 9001; ISO 14001; OHSAS 18001



### PERFORMANCE WARRANTY

12-year Warranty for Materials and Processing;  
25-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.

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**Website:** www.lighthopeenergy.com

# LHM72H-158MB-9BB

# 390-415W

## 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

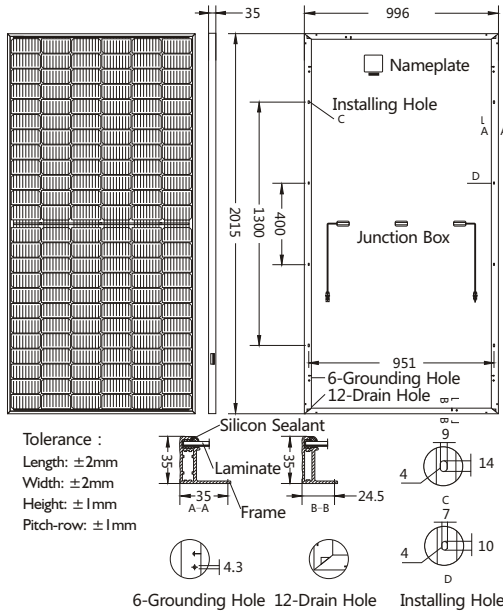
Test uncertainty for Pmax: ±3%

		390W		395W		400W		405W		410W		415W	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)		390	295	395	299	400	302	405	306	410	310	415	314
Open Circuit Voltage (Voc/V)		40.0	37.6	40.1	37.8	40.3	39.0	40.5	38.2	40.7	38.4	40.9	38.6
Short Circuit Current (Isc/A)		9.75	7.84	9.86	7.90	9.92	7.95	10.0	8.01	10.07	8.07	10.15	8.13
Voltage at Maximum Power (Vmp/V)		48.5	45.7	48.7	45.9	49.0	46.2	49.2	46.4	49.4	46.6	49.6	46.8
Current at Maximum Power (Imp/A)		10.30	8.30	10.37	8.36	10.45	8.42	10.52	8.47	10.59	8.53	10.66	8.58
Module Efficiency (%)		19.4		19.7		19.9		20.2		20.4		20.7	

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

## Design (mm)



## Mechanical & Operating Parameters

Cell Orientation	144 (6x24)
Junction Box	Ip68 rated
Output Cable	Photovoltaic Cable 12AG,6.4mm Portrait: N 140mm/P 285mm, Landscape: N 1200 mm /P 1400 mm
Glass	3.2mm , High Transmission, AR Coated Tempered Glass
Frame	35 mm Anodized Aluminium Alloy
Weight	22.0kg
Dimension	2015×996×35mm
Packaging	30pcs per pallet    150pcs per 20'/GP    660pcs 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)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	41 ±3K
Safety Class	Class II
Fire Rating	UL

## Temperature Ratings (STC)

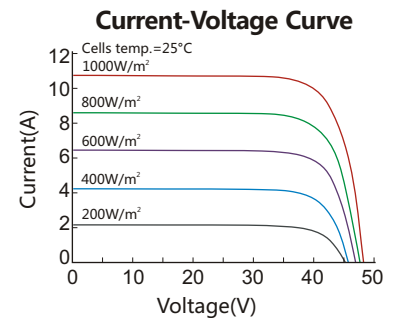
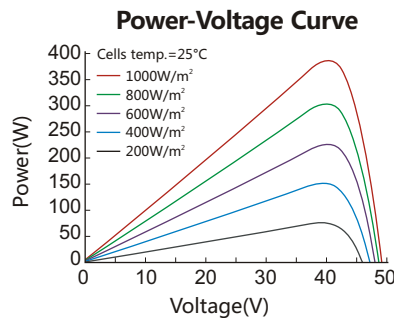
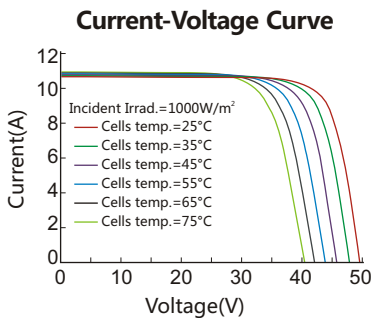
Temperature Coefficient of Isc	+0.04%/K
Temperature Coefficient of Voc	-0.26%/K
Temperature Coefficient of Pmax	-0.36%/K

## Mechanical Loading

Front Side Maximum Static Loading	5400Pa(3600Pa*)
Rear Side Maximum Static Loading	2400Pa(1600Pa*)

\*design load with safety factor 1.5(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

## I-V Curve (LHM72H-158M-405W)



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