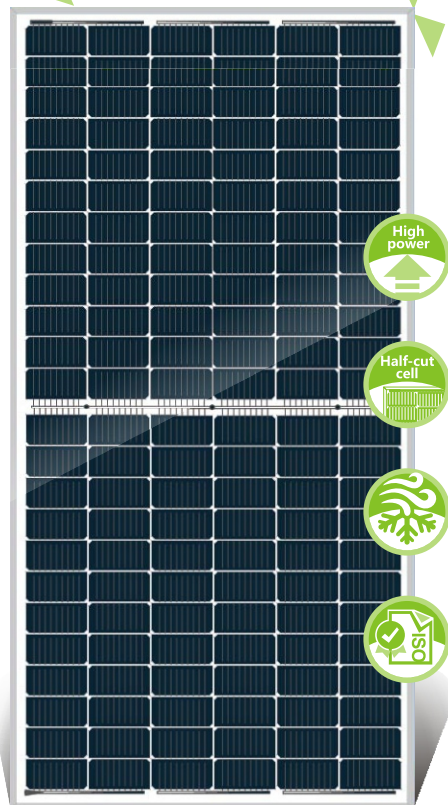


LHM72H-166M-9BB 425-455W



*Both 6BB & 9BB are available

High Efficiency Low LID Mono PERC with Half-cut Technology

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 20.9%)

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

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

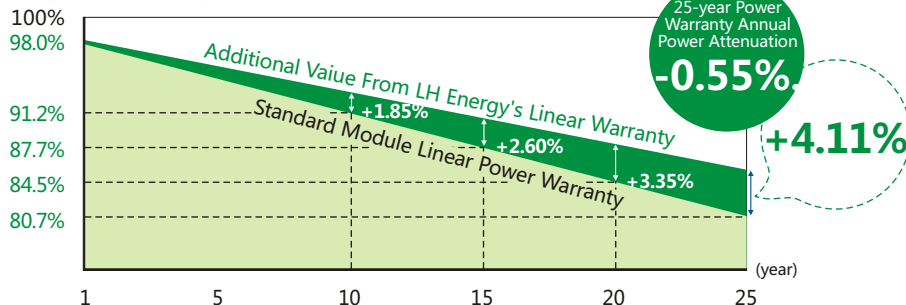
OHSAS 18001: 2007 Occupational Health and Safety



* 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; 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.

BANGSAOTHONG DISTRICT SAMUT PRAKARN THAILAND 10570

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

Website: www.lighthopeenergy.com

425-455W

Electrical Characteristics

Model Number
Testing Condition
Maximum Power (P_{max}/W)
Open Circuit Voltage (V_{oc}/V)
Short Circuit Current (I_{sc}/A)
Voltage at Maximum Power (V_{mp}/V)
Current at Maximum Power (I_{mp}/A)
Module Efficiency (%)

Electrical Characteristics

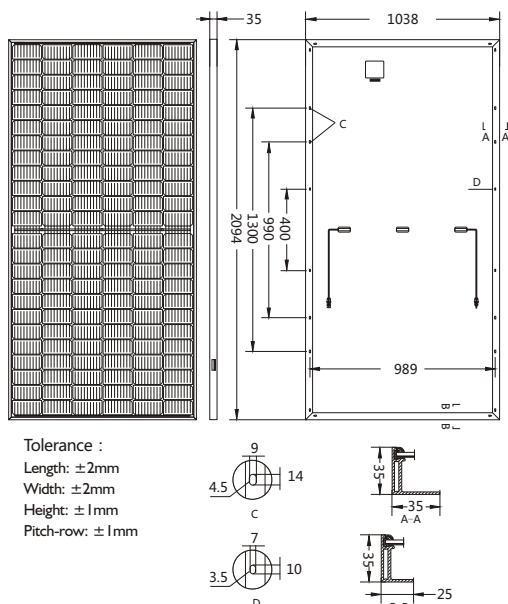
Test uncertainty for Pmax: $\pm 3\%$

425W		430W		435W		440W		445W		450W		455W	
STC NOCT		STC NOCT		STC NOCT		STC NOCT		STC NOCT		STC NOCT		STC NOCT	
425	317.4	430	321.1	435	324.9	440	328.6	445	332.3	450	336.1	455	339.8
48.3	45.3	48.5	45.5	48.7	45.7	48.9	45.8	49.1	46.0	49.3	46.2	49.5	46.4
11.23	9.08	11.31	9.15	11.39	9.21	11.46	9.27	11.53	9.33	11.60	9.38	11.66	9.43
40.5	37.7	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5	41.5	38.6	41.7	38.8
10.50	8.42	10.57	8.47	10.64	8.53	10.71	8.59	10.78	8.64	10.85	8.70	10.92	8.75
19.6		19.8		20.0		20.2		20.5		20.7		20.9	

STC (Standard Testing Conditions): Irradiance 1000W/m^2 , 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

Design (mm)



Mechanical & Operating Parameters

Cell Orientation	144 (6x24)
Junction Box	IP68,three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	23.5kg
Dimension	2094×1038×35mm
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/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45±2°C
Safety Class	Class II
Fire Rating	UL

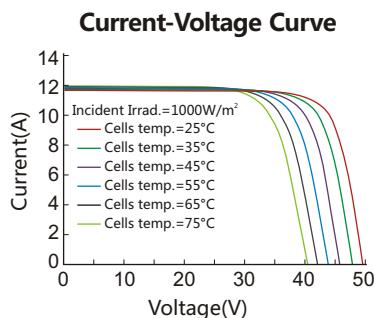
Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C

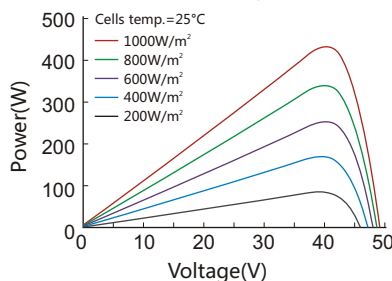
Mechanical Loading

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

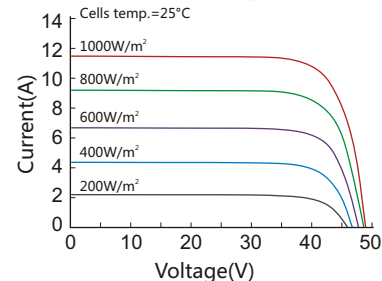
I-V Curve (LHM72H-166M-440W)



Power-Voltage Curve



Current-Voltage Curve



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