

# Hi-MO 6

Explorer

## LR5-54HTH 415~435M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



15-year Warranty for  
Materials and Processing



25-year Warranty for Extra  
Linear Power Output

### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

# LONGi



**22.3%**  
MAX MODULE  
EFFICIENCY

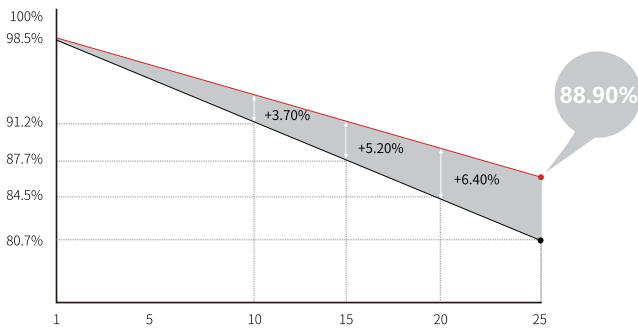
**0~3%**  
POWER  
TOLERANCE

**<1.5%**  
FIRST YEAR  
POWER DEGRADATION

**0.40%**  
YEAR 2-25  
POWER DEGRADATION

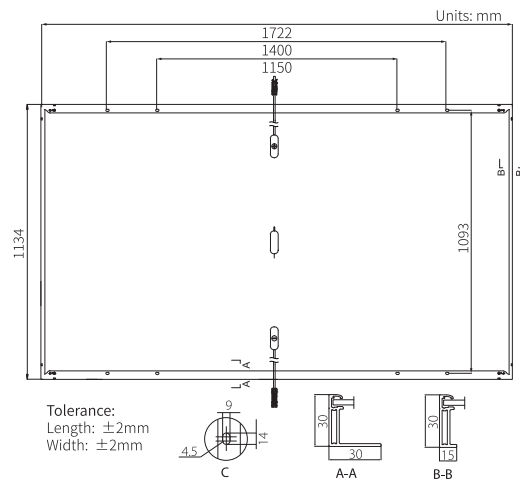
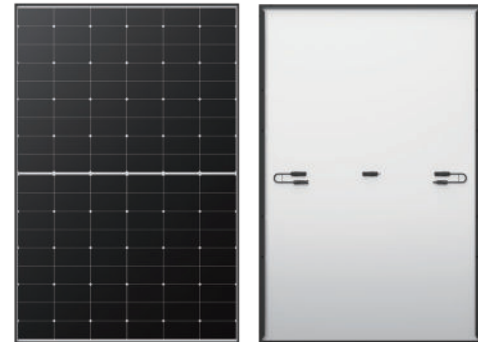
## Additional Value

25-Year Power Warranty



## Mechanical Parameters

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Cell Orientation | 108 (6×18)                                               |
| Junction Box     | IP68, three diodes                                       |
| Output Cable     | 4mm <sup>2</sup> , ±1200mm<br>length can be customized   |
| Glass            | Single glass, 3.2mm coated tempered glass                |
| Frame            | Anodized aluminum alloy frame                            |
| Weight           | 20.8kg                                                   |
| Dimension        | 1722×1134×30mm                                           |
| Packaging        | 36pcs per pallet / 216pcs per 20' GP / 936pcs per 40' HC |



## Electrical Characteristics

STC : AM1.5 1000W/m<sup>2</sup> 25°C

NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Test uncertainty for Pmax: ±3%

| Module Type                      | LR5-54HTH-415M |       | LR5-54HTH-420M |       | LR5-54HTH-425M |       | LR5-54HTH-430M |       | LR5-54HTH-435M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 415            | 310   | 420            | 314   | 425            | 318   | 430            | 321   | 435            | 325   |
| Open Circuit Voltage (Voc/V)     | 38.53          | 36.18 | 38.73          | 36.36 | 38.93          | 36.55 | 39.13          | 36.74 | 39.33          | 36.93 |
| Short Circuit Current (Isc/A)    | 13.92          | 11.24 | 14.00          | 11.31 | 14.07          | 11.36 | 14.15          | 11.43 | 14.22          | 11.49 |
| Voltage at Maximum Power (Vmp/V) | 32.24          | 29.42 | 32.44          | 29.60 | 32.64          | 29.78 | 32.84          | 29.97 | 33.04          | 30.15 |
| Current at Maximum Power (Imp/A) | 12.88          | 10.54 | 12.95          | 10.60 | 13.03          | 10.67 | 13.10          | 10.72 | 13.17          | 10.78 |
| Module Efficiency(%)             | 21.3           |       | 21.5           |       | 21.8           |       | 22.0           |       | 22.3           |       |

## Operating Parameters

|                                    |                               |
|------------------------------------|-------------------------------|
| Operational Temperature            | -40°C ~ +85°C                 |
| Power Output Tolerance             | 0 ~ 3%                        |
| Voc and Isc Tolerance              | ±3%                           |
| Maximum System Voltage             | DC1500V (IEC/UL)              |
| Maximum Series Fuse Rating         | 25A                           |
| Nominal Operating Cell Temperature | 45±2°C                        |
| Protection Class                   | Class II                      |
| Fire Rating                        | UL type 1 or 2<br>IEC Class 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 |

## Temperature Ratings (STC)

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Isc  | +0.050%/°C |
| Temperature Coefficient of Voc  | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.290%/°C |