

# Hi-MO X6 Explorer

LR5-54HTB  
415~435M

- Suitable for Distribution Market
- Pure black for extreme elegance
- 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**



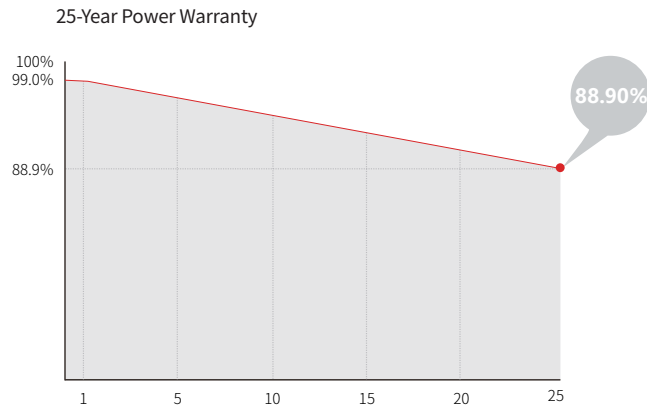
**22.3%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

**<1.5%**  
FIRST YEAR  
POWER DEGRADATION

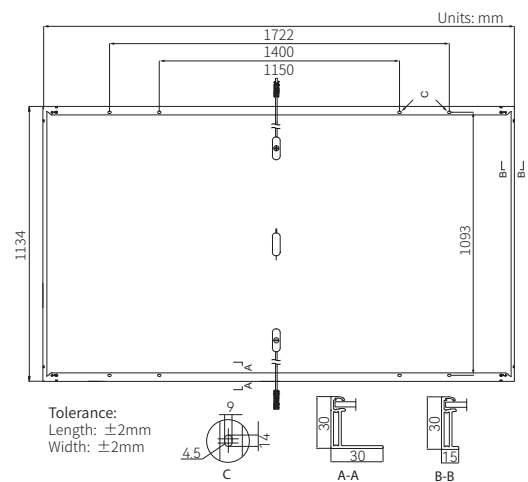
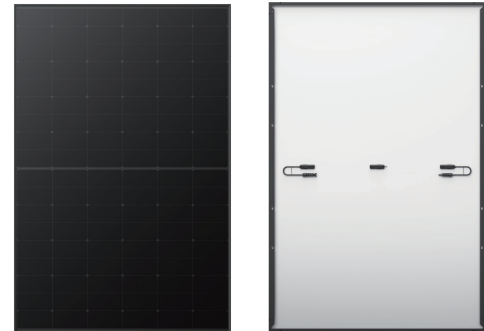
**0.40%**  
YEAR 2-25  
POWER DEGRADATION

## Additional Value



## Mechanical Parameters

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Cell Orientation | 108 (6×18)                                               |
| Junction Box     | IP68                                                     |
| 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 P<sub>max</sub>: ±3%

| Module Type                                   | LR5-54HTB-415M |       | LR5-54HTB-420M |       | LR5-54HTB-425M |       | LR5-54HTB-430M |       | LR5-54HTB-435M |       |
|-----------------------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                             | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (P <sub>max</sub> /W)           | 415            | 310   | 420            | 314   | 425            | 318   | 430            | 321   | 435            | 325   |
| Open Circuit Voltage (V <sub>oc</sub> /V)     | 38.83          | 36.46 | 39.03          | 36.65 | 39.23          | 36.83 | 39.43          | 37.02 | 39.63          | 37.21 |
| Short Circuit Current (I <sub>sc</sub> /A)    | 13.78          | 11.13 | 13.85          | 11.19 | 13.93          | 11.25 | 14.00          | 11.31 | 14.08          | 11.37 |
| Voltage at Maximum Power (V <sub>mp</sub> /V) | 32.56          | 29.71 | 32.76          | 29.89 | 32.96          | 30.08 | 33.16          | 30.26 | 33.36          | 30.44 |
| Current at Maximum Power (I <sub>mp</sub> /A) | 12.75          | 10.44 | 12.83          | 10.50 | 12.90          | 10.56 | 12.97          | 10.62 | 13.05          | 10.68 |
| 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%                        |
| V <sub>oc</sub> and I <sub>sc</sub> 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 I <sub>sc</sub>  | +0.050%/°C |
| Temperature Coefficient of V <sub>oc</sub>  | -0.230%/°C |
| Temperature Coefficient of P <sub>max</sub> | -0.290%/°C |