

# Hi-MO X10 Explorer

LR7-72HVH  
630~650M

- Suitable for Distribution Market
- Highest efficiency with the best energy generation performance
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

15

15-year Warranty for  
Materials and Processing

30

30-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**



# Hi-MO X10 Explorer

## LR7-72HVH 630~650M

**24.1%**  
MAX MODULE  
EFFICIENCY

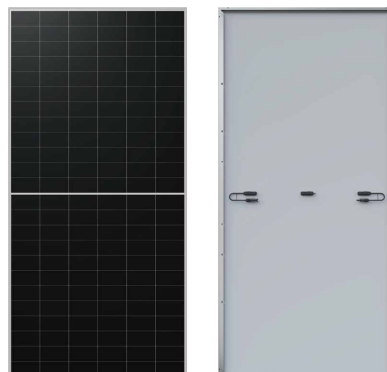
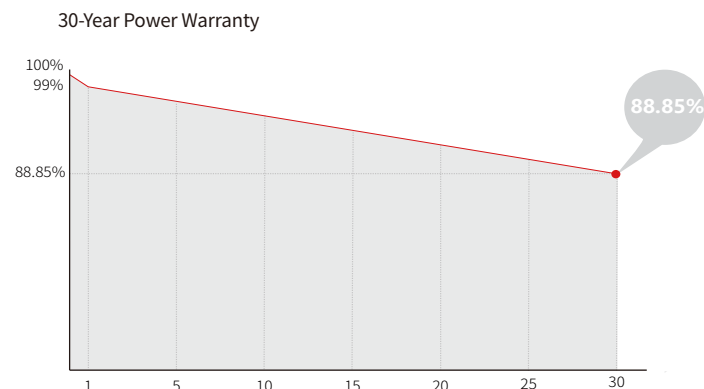
**0~3%**  
POWER  
TOLERANCE

**<1%**  
FIRST YEAR  
POWER DEGRADATION

**0.35%**  
YEAR 2-30  
POWER DEGRADATION

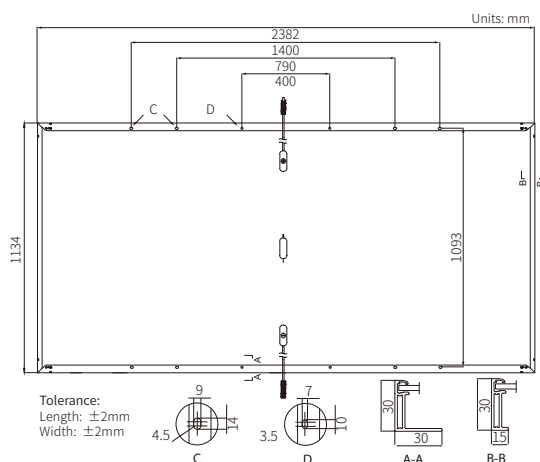
**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

### Additional Value



### Mechanical Parameters

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                                          |
| Junction Box     | IP68, three diodes                                                  |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/±1400mm<br>length can be customized |
| Glass            | Single glass, 3.2mm coated tempered glass                           |
| Frame            | Anodized aluminum alloy frame                                       |
| Weight           | 28.5kg                                                              |
| Dimension        | 2382×1134×30mm                                                      |
| Packaging        | 36pcs per pallet / 144pcs per 20' GP / 720pcs 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                      | LR7-72HVH-630M |       | LR7-72HVH-635M |       | LR7-72HVH-640M |       | LR7-72HVH-645M |       | LR7-72HVH-650M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 630            | 480   | 635            | 483   | 640            | 487   | 645            | 491   | 650            | 495   |
| Open Circuit Voltage (Voc/V)     | 53.50          | 50.84 | 53.60          | 50.94 | 53.70          | 51.04 | 53.80          | 51.13 | 53.90          | 51.23 |
| Short Circuit Current (Isc/A)    | 14.97          | 12.02 | 15.05          | 12.09 | 15.13          | 12.15 | 15.21          | 12.22 | 15.29          | 12.28 |
| Voltage at Maximum Power (Vmp/V) | 44.16          | 41.96 | 44.26          | 42.06 | 44.36          | 42.15 | 44.46          | 42.25 | 44.56          | 42.35 |
| Current at Maximum Power (Imp/A) | 14.27          | 11.44 | 14.35          | 11.50 | 14.43          | 11.56 | 14.51          | 11.63 | 14.59          | 11.69 |
| Module Efficiency(%)             | 23.3           |       | 23.5           |       | 23.7           |       | 23.9           |       | 24.1           |       |

### Operating Parameters

|                                    |               |
|------------------------------------|---------------|
| Operational Temperature            | -40°C ~ +85°C |
| Power Output Tolerance             | 0 ~ 3%        |
| Maximum System Voltage             | DC1500V (IEC) |
| Maximum Series Fuse Rating         | 25A           |
| Nominal Operating Cell Temperature | 45±2°C        |
| Protection Class                   | Class II      |
| Fire Rating                        | 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  | -0.200%/°C |
| Temperature Coefficient of Pmax | -0.260%/°C |

**LONGI**

Specifications included in this datasheet are subject to change without notice.  
LONGI reserves the right of final interpretation. (20240927 V01 Draft)

# Hi-MO X6<sup>Max</sup> Scientist

LR7-72HTH

620~630M

- Suitable for Distribution Market
- Simple design embodies modern style
- Highest efficiency with the best energy generation performance
- Better product warranty, better service



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

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**23.3%**  
MAX MODULE  
EFFICIENCY

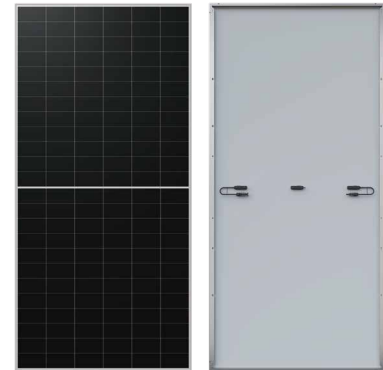
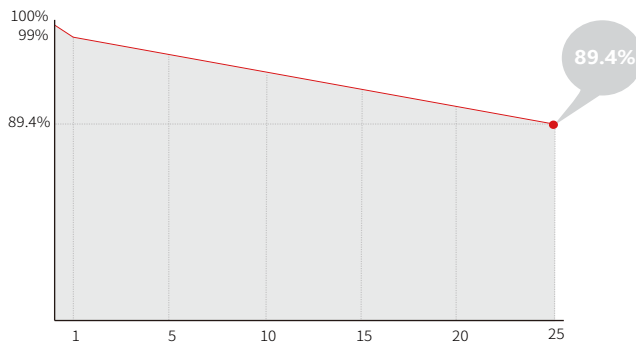
**0~3%**  
POWER  
TOLERANCE

**<1%**  
FIRST YEAR  
POWER DEGRADATION

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

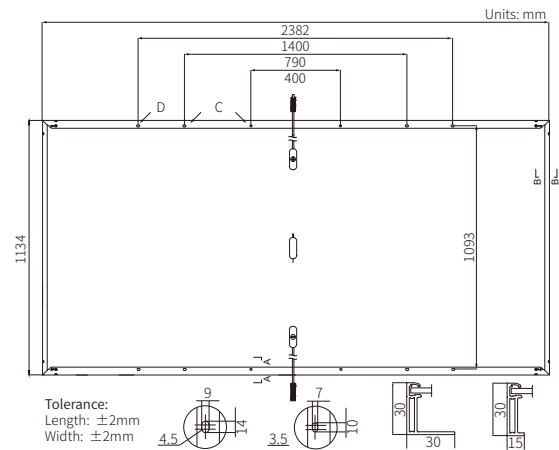
## Additional Value

25-Year Power Warranty



## Mechanical Parameters

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                                          |
| Junction Box     | IP68                                                                |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/±1400mm<br>length can be customized |
| Glass            | Single glass, 3.2mm coated tempered glass                           |
| Frame            | Anodized aluminum alloy frame                                       |
| Weight           | 28.5kg                                                              |
| Dimension        | 2382×1134×30mm                                                      |
| Packaging        | 36pcs per pallet / 144pcs per 20' GP / 720pcs 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                                   | LR7-72HTH-620M |       | LR7-72HTH-625M |       | LR7-72HTH-630M |       |
|-----------------------------------------------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                             | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (P <sub>max</sub> /W)           | 620            | 463.4 | 625            | 467.1 | 630            | 470.8 |
| Open Circuit Voltage (V <sub>oc</sub> /V)     | 52.72          | 49.59 | 52.87          | 49.64 | 53.02          | 49.78 |
| Short Circuit Current (I <sub>sc</sub> /A)    | 14.93          | 12.06 | 15.01          | 12.12 | 15.07          | 12.17 |
| Voltage at Maximum Power (V <sub>mp</sub> /V) | 44.48          | 40.59 | 44.63          | 40.73 | 44.78          | 40.87 |
| Current at Maximum Power (I <sub>mp</sub> /A) | 13.94          | 11.42 | 14.01          | 11.47 | 14.07          | 11.52 |
| Module Efficiency(%)                          | 23.0           |       | 23.1           |       | 23.3           |       |

## Operating Parameters

|                                    |                  |
|------------------------------------|------------------|
| Operational Temperature            | -40°C ~ +85°C    |
| Power Output Tolerance             | 0 ~ 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                        | 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> | -0.280%/°C |