

# Hi-MO **X6** Max

## LR7-72HTD

### 595~615M

- 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



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



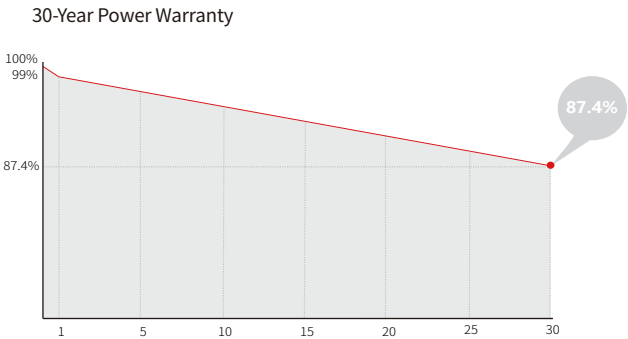
22.8%  
MAX MODULE  
EFFICIENCY

0~3%  
POWER  
TOLERANCE

<1%  
FIRST YEAR  
POWER DEGRADATION

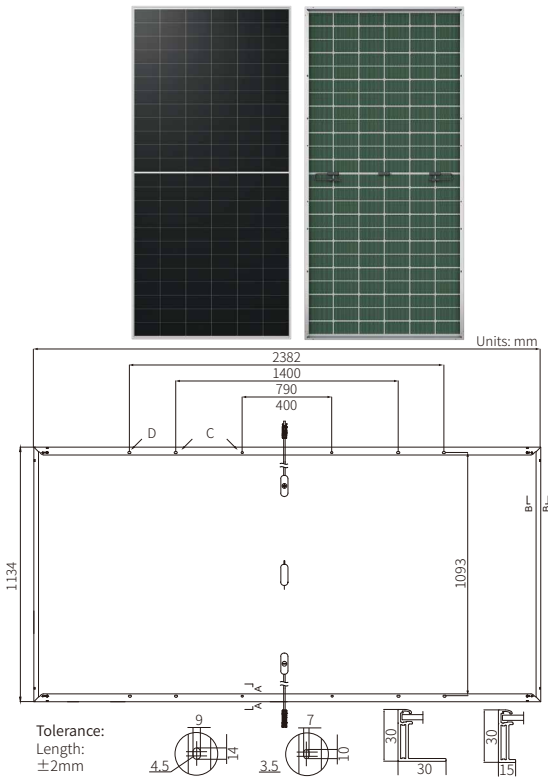
0.40%  
YEAR 2-30  
POWER DEGRADATION

Additional Value



Mechanical Parameters

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                               |
| Junction Box     | IP68                                                     |
| Output Cable     | 4mm², +400, -200mm/±1400mm<br>length can be customized   |
| Glass            | Dual glass, 2.0mm+2.0mm semi-tempered glass              |
| Frame            | Anodized aluminum alloy frame                            |
| Weight           | 33.5kg                                                   |
| Dimension        | 2382×1134×30mm                                           |
| Packaging        | 36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC |



Electrical Characteristics    STC : AM1.5 1000W/m² 25°C    NOCT : AM1.5 800W/m² 20°C 1m/s    Test uncertainty for Pmax: ±3%

| Module Type                      | LR7-72HTD-595M |       | LR7-72HTD-600M |       | LR7-72HTD-605M |       | LR7-72HTD-610M |       | LR7-72HTD-615M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 595            | 444.6 | 600            | 448.3 | 605            | 452.0 | 610            | 455.8 | 615            | 459.5 |
| Open Circuit Voltage (Voc/V)     | 52.36          | 49.16 | 52.51          | 49.30 | 52.66          | 49.44 | 52.81          | 49.58 | 52.96          | 49.72 |
| Short Circuit Current (Isc/A)    | 14.49          | 11.70 | 14.55          | 11.75 | 14.62          | 11.81 | 14.69          | 11.87 | 14.75          | 11.92 |
| Voltage at Maximum Power (Vmp/V) | 44.05          | 40.20 | 44.19          | 40.32 | 44.33          | 40.45 | 44.48          | 40.59 | 44.63          | 40.72 |
| Current at Maximum Power (Imp/A) | 13.51          | 11.06 | 13.58          | 11.12 | 13.65          | 11.17 | 13.72          | 11.23 | 13.78          | 11.29 |
| Module Efficiency(%)             | 22.0           |       | 22.2           |       | 22.4           |       | 22.6           |       | 22.8           |       |

Electrical characteristics with different rear side power gain (reference to 605W front)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---------|-------|--------|-------|--------|-----------|
| 635     | 52.66 | 15.35  | 44.33 | 13.65  | 5%        |
| 666     | 52.66 | 16.08  | 44.33 | 13.65  | 10%       |
| 696     | 52.76 | 16.81  | 44.43 | 13.65  | 15%       |
| 726     | 52.76 | 17.54  | 44.43 | 13.65  | 20%       |
| 756     | 52.76 | 18.28  | 44.43 | 13.65  | 25%       |

Operating Parameters

|                                    |                           |
|------------------------------------|---------------------------|
| Operational Temperature            | -40°C ~ +85°C             |
| Power Output Tolerance             | 0 ~ 3%                    |
| Maximum System Voltage             | DC1500V (IEC)             |
| Maximum Series Fuse Rating         | 30A                       |
| Nominal Operating Cell Temperature | 45±2°C                    |
| Protection Class                   | Class II                  |
| Bifaciality                        | 60±5%                     |
| Fire Rating                        | UL type 29<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 | -0.280%/°C |

Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20240407 Beta V02) DG