

# Hi-MO X6 Guardian Anti-Dust

## LR7-72HTHF 605~630M

(L2)

- Equipped with HPBC cell, inheriting high-efficiency gene
- Unique frame design effectively reduces the impact of dust accumulation and improves power generation gain throughout the entire lifecycle
- High reliability, stable operation under harsh conditions
- More suitable for industrial and commercial color steel tile roofs and small angle installation scenarios

15

15-year Warranty for  
Materials and Processing

25

25-year Warranty for Extra  
Linear Power Output

### Complete System and Product Certifications

IEC 61215, IEC 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



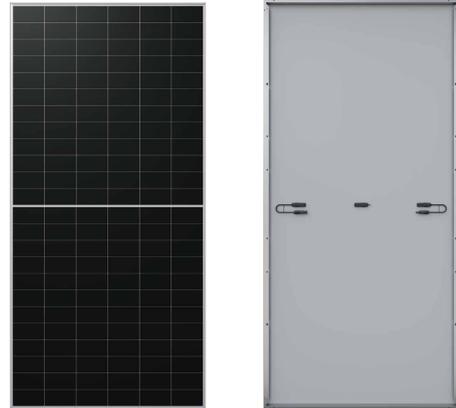
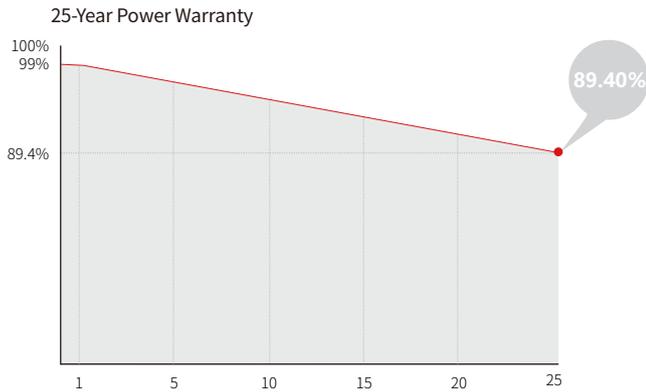
**23.3%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

**<1%**  
FIRST YEAR  
POWER DEGRADATION

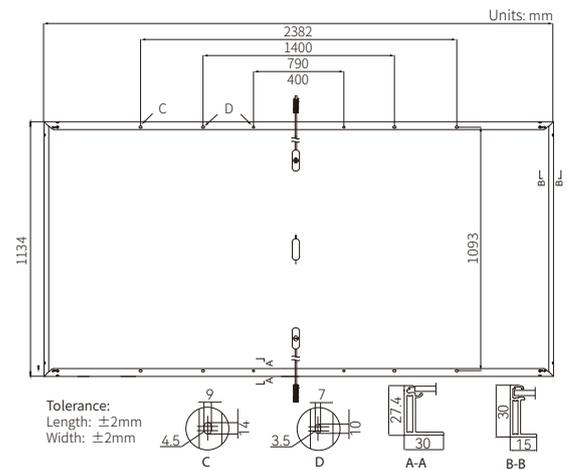
**0.40%**  
YEAR 2-25  
POWER DEGRADATION

## Additional Value



## 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        | 2282×1134×30mm  |
| Packaging        | 35pcs per pallet / 140pcs per 20' GP / 700pcs 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                      | LR7-72HTHF-605M |       | LR7-72HTHF-610M |       | LR7-72HTHF-615M |       | LR7-72HTHF-620M |       | LR7-72HTHF-625M |       | LR7-72HTHF-630M |       |
|----------------------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
|                                  | STC             | NOCT  |
| Maximum Power (Pmax/W)           | 605             | 452.1 | 610             | 455.9 | 615             | 459.6 | 620             | 463.4 | 625             | 467.1 | 630             | 470.8 |
| Open Circuit Voltage (Voc/V)     | 52.27           | 49.2  | 52.42           | 49.22 | 52.57           | 49.36 | 52.72           | 49.50 | 52.9            | 49.6  | 53.02           | 49.78 |
| Short Circuit Current (Isc/A)    | 14.74           | 11.9  | 14.80           | 11.95 | 14.86           | 12.00 | 14.94           | 12.07 | 15.0            | 12.1  | 15.07           | 12.17 |
| Voltage at Maximum Power (Vmp/V) | 44.03           | 40.2  | 44.18           | 40.32 | 44.33           | 40.46 | 44.48           | 40.59 | 44.6            | 40.7  | 44.78           | 40.87 |
| Current at Maximum Power (Imp/A) | 13.75           | 11.3  | 13.81           | 11.31 | 13.88           | 11.36 | 13.94           | 11.42 | 14.0            | 11.5  | 14.07           | 11.52 |
| Module Efficiency(%)             | 22.4%           |       | 22.6%           |       | 22.8%           |       | 23.0%           |       | 23.1%           |       | 23.3%           |       |

## 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  | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.280%/°C |