

Hi-MO **X10** Guardian Anti-Glare

LR7-72HVD 640~670M

- Suitable for glare-sensitive scenarios such as airports, highways, and residential households
- Use high-transparency and low-reflection glass to enhance the anti-glare effect
- Peak efficiency with top power generation performance
- TaiRay wafer & BC technology enhances high product reliability

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

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



24.80%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

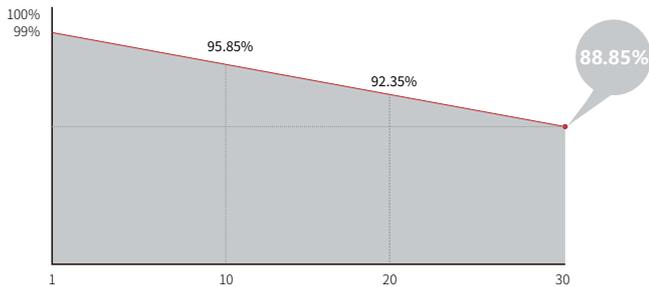
1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

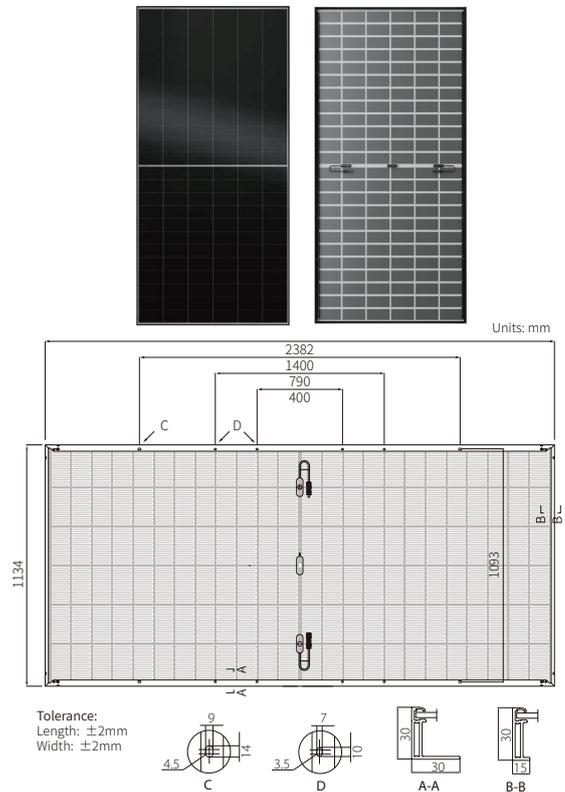
Additional Value

30-Year Power Warranty



Mechanical Parameters

| | |
|------------------|--|
| Cell Orientation | 144 (6×24) |
| Junction Box | IP68 |
| Output Cable | 4mm ² , +400, -200mm/±1400mm length can be customized |
| Glass | Dual glass, 2.0mm anti-glare coated semi-tempered glass + 2.0mm semi-tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 32.5kg |
| 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 Test uncertainty for Pmax: ±3%

| Module Type | LR7-72HVD-640M | LR7-72HVD-645M | LR7-72HVD-650M | LR7-72HVD-655M | LR7-72HVD-660M | LR7-72HVD-665M | LR7-72HVD-670M |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Testing Condition | STC |
| Maximum Power (Pmax/W) | 640 | 645 | 650 | 655 | 660 | 665 | 670 |
| Open Circuit Voltage (Voc/V) | 54.02 | 54.12 | 54.22 | 54.32 | 54.42 | 54.52 | 54.62 |
| Short Circuit Current (Isc/A) | 14.98 | 15.06 | 15.14 | 15.22 | 15.30 | 15.38 | 15.46 |
| Voltage at Maximum Power (Vmp/V) | 44.67 | 44.77 | 44.87 | 44.97 | 45.07 | 45.17 | 45.27 |
| Current at Maximum Power (Imp/A) | 14.33 | 14.41 | 14.49 | 14.57 | 14.65 | 14.72 | 14.80 |
| Module Efficiency(%) | 23.69 | 23.88 | 24.06 | 24.25 | 24.43 | 24.62 | 24.80 |

Electrical characteristics with different rear side power gain (reference to 655W front)

| Pmax/W | Voc/V | Isc/A | Vmp/V | Imp/A | Pmax gain |
|--------|-------|-------|-------|-------|-----------|
| 688 | 54.32 | 15.98 | 44.97 | 15.30 | 5% |
| 721 | 54.32 | 16.74 | 44.97 | 16.03 | 10% |
| 755 | 54.42 | 17.50 | 45.07 | 16.76 | 15% |
| 788 | 54.42 | 18.26 | 45.07 | 17.48 | 20% |
| 821 | 54.42 | 19.03 | 45.07 | 18.21 | 25% |

Operating Parameters

| | |
|------------------------------------|------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC/UL) |
| Maximum Series Fuse Rating | 30A |
| Nominal Operating Cell Temperature | 45±2°C |
| Protection Class | Class II |
| Bifaciality | 70±5% |
| 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 |