# Hi-MO X10 Guardian Anti-Dust

## LR7-72HVHF

# 640~670M

- Equipped with HPBC 2.0 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

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

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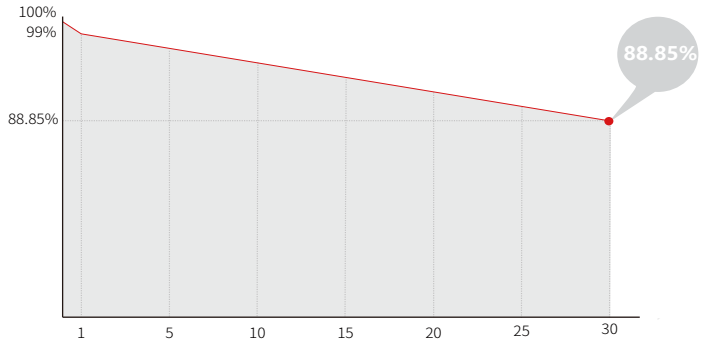
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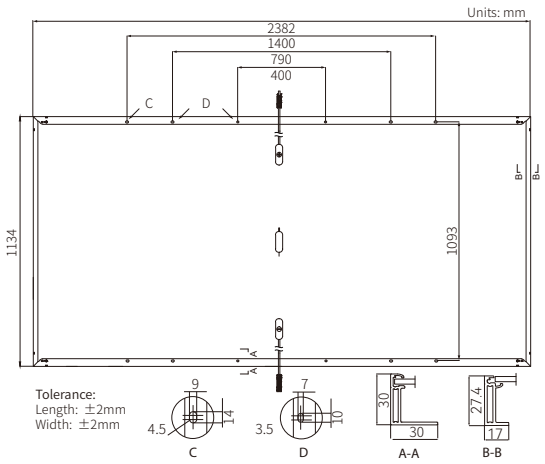
| 24.8% | 0~3% | <1% | 0.35% | BC-CELL |
|---|---|---|---|---|
| MAX MODULE EFFICIENCY | POWER TOLERANCE | FIRST YEAR POWER DEGRADATION | YEAR 2-30 POWER DEGRADATION | LOWER OPERATING TEMPERATURE |

## Additional Value

30-Year Power Warranty






## Mechanical Parameters

| | |
|---|---|
| Cell Orientation | 144 (6×24) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm², +400, -200mm/±1400mm 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 | 35pcs per pallet / 140pcs per 20' GP / 700pcs 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 | LR7-72HVHF-640M | | LR7-72HVHF-645M | | LR7-72HVHF -650M | | LR7-72HVHF-655M | | LR7-72HVHF-660M | | LR7-72HVHF-665M | | LR7-72HVHF-670M | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 640 | 487 | 645 | 491 | 650 | 495 | 655 | 499 | 660 | 502 | 665 | 506 | 670 | 510 |
| Open Circuit Voltage (Voc/V) | 53.70 | 51.04 | 53.80 | 51.13 | 53.90 | 51.23 | 54.00 | 51.32 | 54.10 | 51.42 | 54.20 | 51.52 | 54.30 | 51.62 |
| Short Circuit Current (Isc/A) | 15.13 | 12.15 | 15.21 | 12.22 | 15.29 | 12.28 | 15.37 | 12.34 | 15.45 | 12.41 | 15.53 | 12.48 | 15.61 | 12.55 |
| Voltage at Maximum Power (Vmp/V) | 44.36 | 42.15 | 44.46 | 42.25 | 44.56 | 42.35 | 44.66 | 42.44 | 44.76 | 42.54 | 44.86 | 42.64 | 44.96 | 42.74 |
| Current at Maximum Power (Imp/A) | 14.43 | 11.56 | 14.51 | 11.63 | 14.59 | 11.69 | 14.67 | 11.76 | 14.75 | 11.82 | 14.83 | 11.88 | 14.91 | 11.94 |
| Module Efficiency(%) | 23.7 | | 23.9 | | 24.1 | | 24.2 | | 24.4 | | 24.6 | | 24.8 | |

## 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 |

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