

# Hi-MO X10 Scientist

## LR7-72HVV 655~670M

- 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



24.8%  
MAX MODULE  
EFFICIENCY

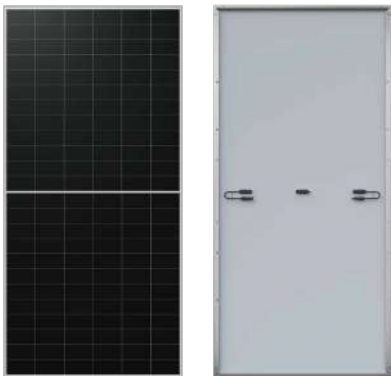
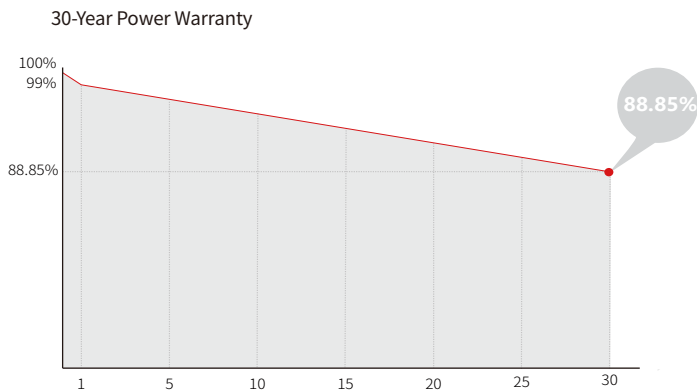
0~3%  
POWER  
TOLERANCE

<1%  
FIRST YEAR  
POWER DEGRADATION

0.35%  
YEAR 2-30  
POWER DEGRADATION

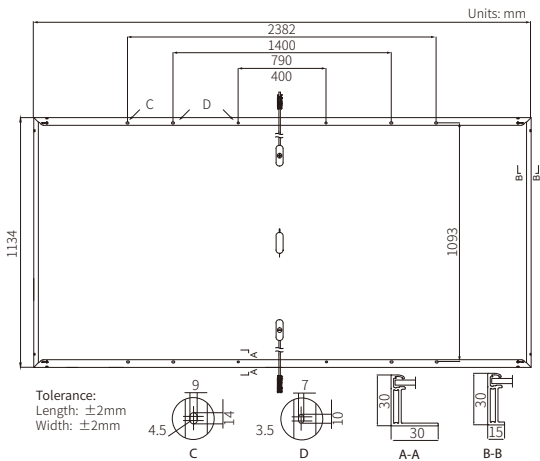
BC-CELL  
LOWER OPERATING  
TEMPERATURE

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/m² 25°C |       | NOCT : AM1.5 800W/m² 20°C 1m/s |       | Test uncertainty for Pmax: ±3% |       |                |       |
|----------------------------------|---------------------------|-------|--------------------------------|-------|--------------------------------|-------|----------------|-------|
|                                  | LR7-72HVH-655M            |       | LR7-72HVH-660M                 |       | LR7-72HVH-665M                 |       | LR7-72HVH-670M |       |
| Module Type                      | STC                       | NOCT  | STC                            | NOCT  | STC                            | NOCT  | STC            | NOCT  |
| Testing Condition                |                           |       |                                |       |                                |       |                |       |
| Maximum Power (Pmax/W)           | 655                       | 499   | 660                            | 502   | 665                            | 506   | 670            | 510   |
| Open Circuit Voltage (Voc/V)     | 54.00                     | 51.32 | 54.10                          | 51.42 | 54.20                          | 51.52 | 54.30          | 51.62 |
| Short Circuit Current (Isc/A)    | 15.37                     | 12.34 | 15.45                          | 12.41 | 15.53                          | 12.48 | 15.61          | 12.55 |
| Voltage at Maximum Power (Vmp/V) | 44.66                     | 42.44 | 44.76                          | 42.54 | 44.86                          | 42.64 | 44.96          | 42.74 |
| Current at Maximum Power (Imp/A) | 14.67                     | 11.76 | 14.75                          | 11.82 | 14.83                          | 11.88 | 14.91          | 11.94 |
| Module Efficiency(%)             | 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 |