

# Hi-MO **X10** Scientist

## LR7-72HVH 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-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



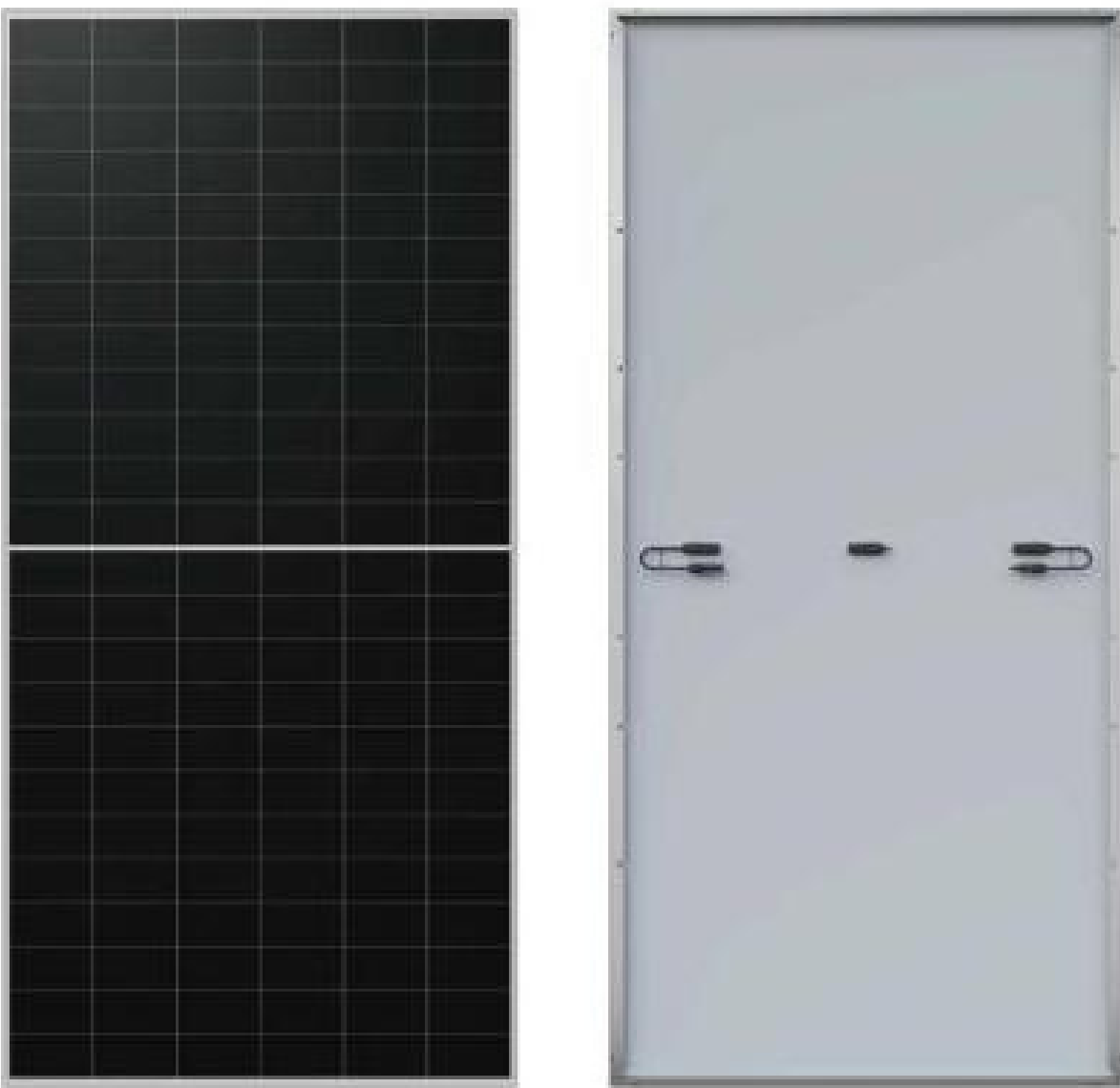
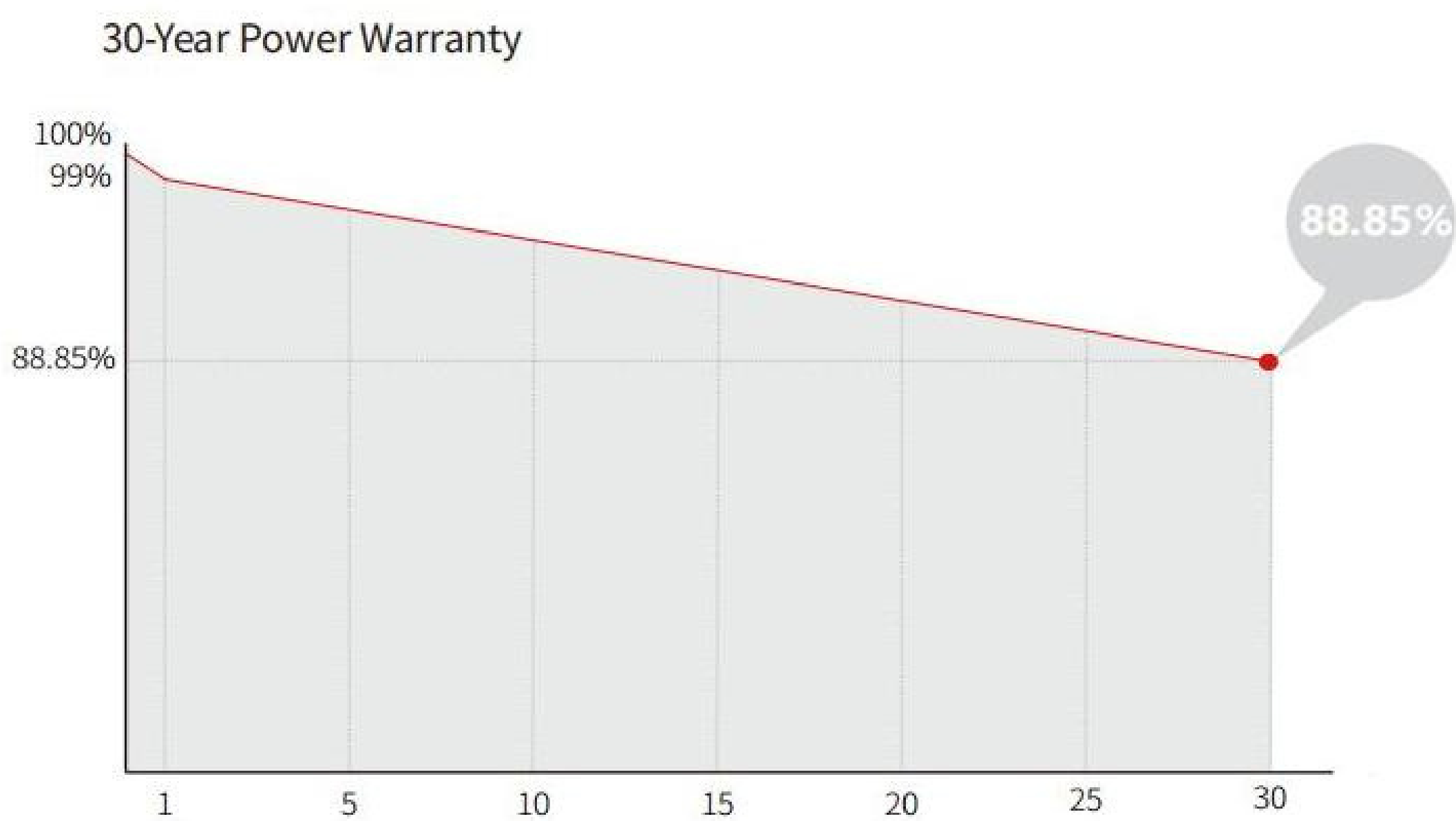
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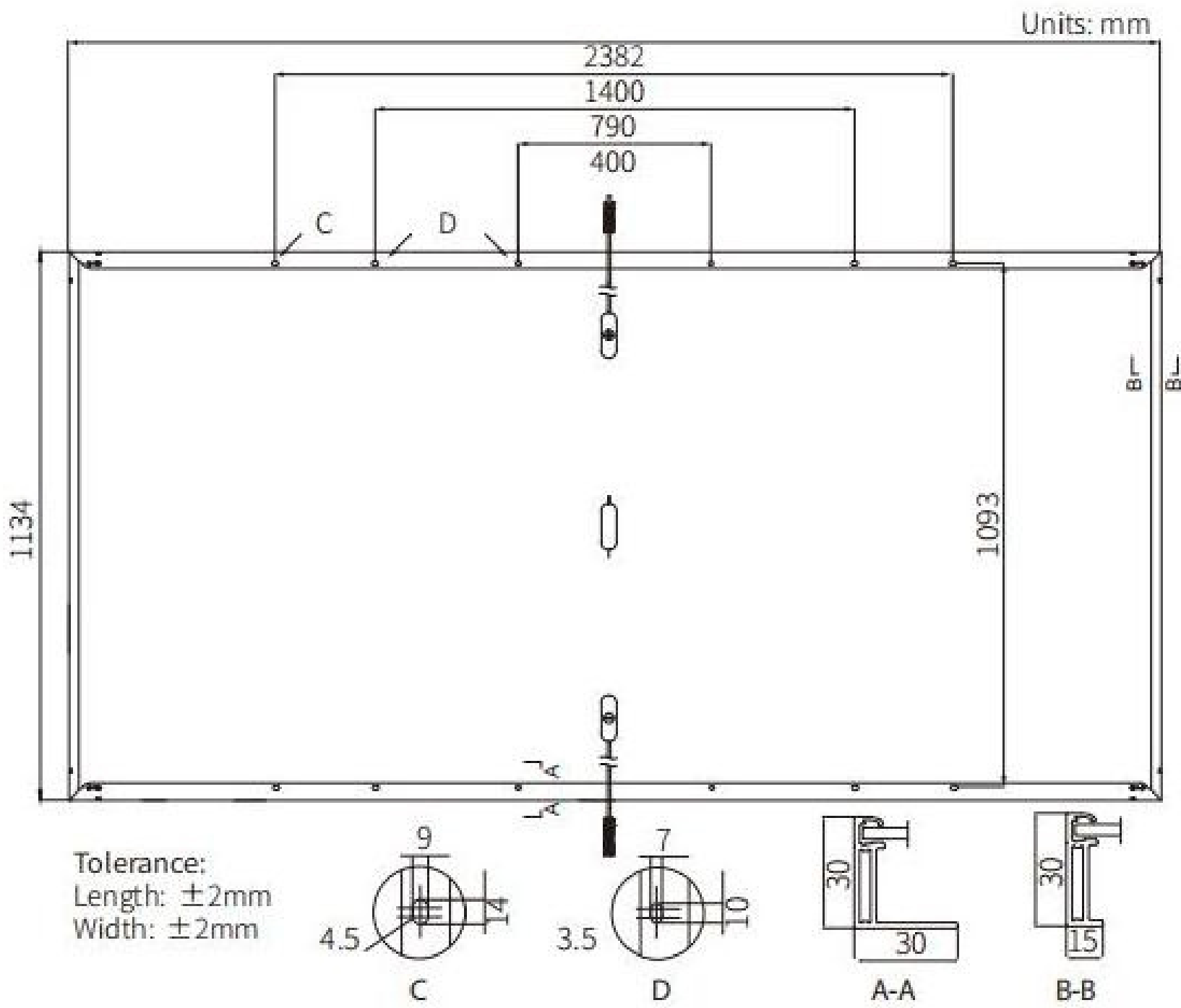
|                                   |                            |                                        |                                         |                                           |
|-----------------------------------|----------------------------|----------------------------------------|-----------------------------------------|---------------------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

Additional Value



Mechanical Parameters

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                               |
| Junction Box     | IP68, three diodes                                       |
| Output Cable     | 4mm², +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                | STC                      | NOCT  | STC                           | NOCT  | STC                            | NOCT  | STC            | NOCT  |
| 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 |