

# Hi-MO X10

LONGI  
SOLAR

## LR7-72HVD

## 650~660M

THE **smarter**  
AWARD **E**

- Suitable for Distribution Market
- Peak efficiency with top power generation performance
- TaiRay wafer & BC technology enhances high product reliability
- More suitable for industrial and commercial cement roofs and high temperature scenarios

HPBC  
2.0



N-type

30

30 year Warranty for  
Extra Linear Power Output

15

15 year Warranty for  
Materials and Processing

### Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing



## Define Roof Define Life

## LR7-72HVD

**24.4 %**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

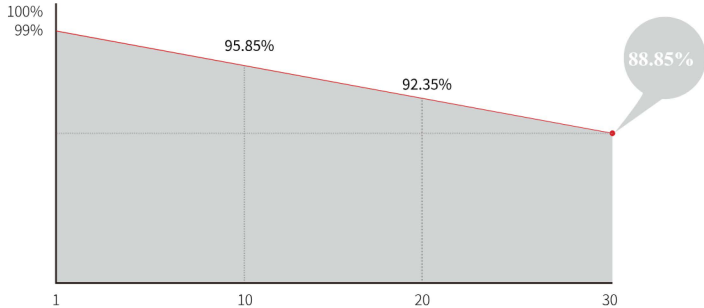
**1 %**  
FIRST YEAR  
POWER DEGRADATION

**0.35 %**  
YEAR 2-30  
POWER DEGRADATION

**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

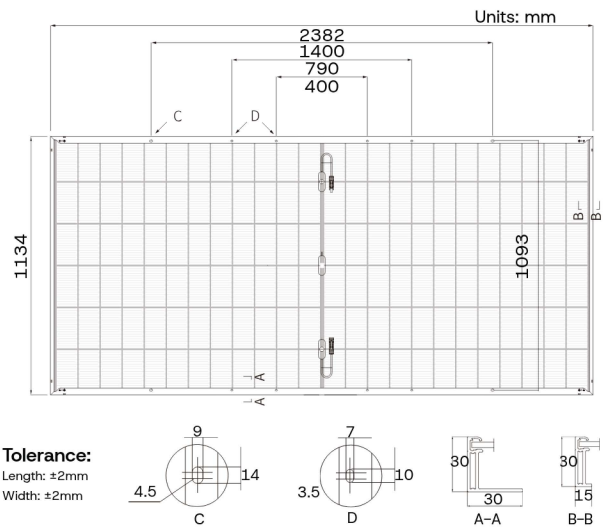
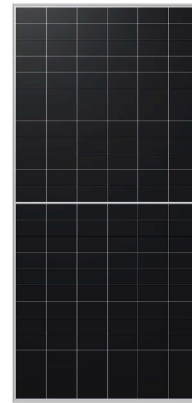
### Additional Value

#### 30 Year Power Warranty



### Mechanical Parameters

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                                           |
| Junction Box     | IP68                                                                 |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/±12 00mm<br>length can be customized |
| Glass            | Dual glass, 2.0+2.0mm semi-tempered glass                            |
| Frame            | Anodized aluminum alloy frame                                        |
| Weight           | 32.5                                                                 |
| Dimension        | 2382×1134×30mm                                                       |
| Packaging        | 36pcs per pallet / 144pcs per 20' GP / 720pcs 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 P<sub>max</sub> ±3%

| Module Type                                   | LR7-72HVD-650M |       | LR7-72HVD-655M |       | LR7-72HVD-660M |       |
|-----------------------------------------------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                             | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (P <sub>max</sub> /W)           | 650.0          | 494.8 | 655.0          | 498.6 | 660.0          | 502.4 |
| Open Circuit Voltage (V <sub>oc</sub> /V)     | 54.22          | 51.53 | 54.32          | 51.62 | 54.42          | 51.72 |
| Short Circuit Current (I <sub>sc</sub> /A)    | 15.14          | 12.16 | 15.22          | 12.22 | 15.3           | 12.29 |
| Voltage at Maximum Power (V <sub>mp</sub> /V) | 44.87          | 42.64 | 44.97          | 42.74 | 45.07          | 42.83 |
| Current at Maximum Power (I <sub>mp</sub> /A) | 14.49          | 11.61 | 14.57          | 11.68 | 14.65          | 11.75 |
| Module Efficiency(%)                          | 24.4           |       | 24.2           |       | 24.4           |       |

### Electrical characteristics with different rear side power gain

| P <sub>max</sub> /W | V <sub>oc</sub> /V | I <sub>sc</sub> /A | V <sub>mp</sub> /V | I <sub>mp</sub> /A | P <sub>max</sub> gain |
|---------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| 677.0               | 54.12              | 15.81              | 44.77              | 15.13              | 0.05                  |
| 710.0               | 54.12              | 16.57              | 44.77              | 15.85              | 0.1                   |
| 744.0               | 54.22              | 17.32              | 44.87              | 16.57              | 0.15                  |
| 776.0               | 54.22              | 18.07              | 44.87              | 17.29              | 0.2                   |
| 808.0               | 54.22              | 18.83              | 44.87              | 18.01              | 0.25                  |

### 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 I <sub>sc</sub>  | +0.050%/°C |
| Temperature Coefficient of V <sub>oc</sub>  | -0.200%/°C |
| Temperature Coefficient of P <sub>max</sub> | -0.260%/°C |