

# Hi-MO X6<sup>Max</sup> Scientist

## T1-SLP-144-625-BIP-LONGI

### LR8-66HTD

# 610~635M

- 
- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



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



**23.51%**

MAX MODULE  
EFFICIENCY

**0~3%**

POWER  
TOLERANCE

**<1%**

FIRST YEAR  
POWER DEGRADATION

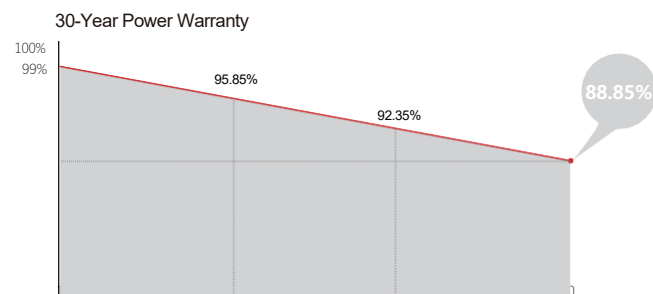
**0.35%**

YEAR 2-30  
POWER DEGRADATION

**BC-CELL**

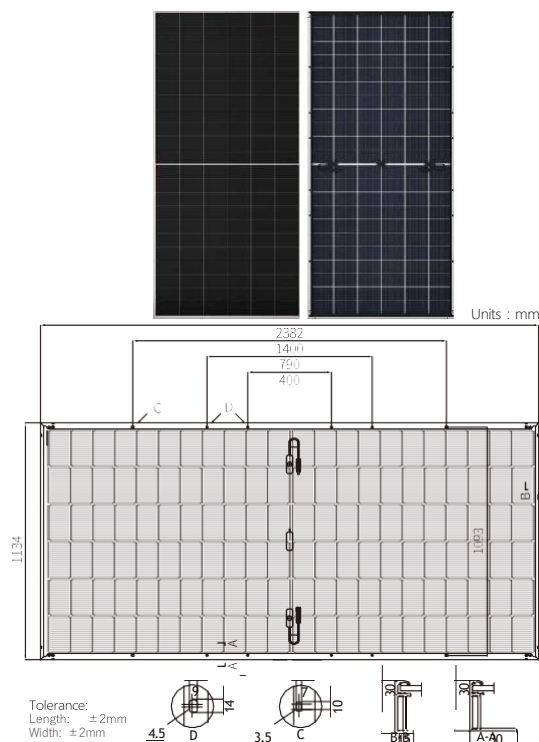
LOWER OPERATING  
TEMPERATURE

## Additional Value



## Mechanical Parameters

|                  |                                                                       |
|------------------|-----------------------------------------------------------------------|
| Cell Orientation | 132 (6 × 22)                                                          |
| Junction Box     | IP68, three diodes                                                    |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/ ± 1400mm<br>length can be customized |
| Glass            | Dual glass, 2.0+2.0mm semi-tempered glass                             |
| Frame            | Anodized aluminum alloy frame                                         |
| Weight           | 33.5kg                                                                |
| Dimension        | 2382 × 1134 × 30mm                                                    |
| Packaging        | 36pcs per pallet / 144pcs per 40' HC / 720pcs per 40' HQ              |



## Electrical Characteristics

STC : AM1.5 1000W/m<sup>2</sup> 25°C Test uncertainty for Pmax: ± 3%

| Module Type                      | LR8-66HTD-610M | LR8-66HTD-615M | LR8-66HTD-620M | LR8-66HTD-625M | LR8-66HTD-630M | LR8-66HTD-635M |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Testing Condition                | STC            | STC            | STC            | STC            | STC            | STC            |
| Maximum Power (Pmax/W)           | 610            | 615            | 620            | 625            | 630            | 635            |
| Open Circuit Voltage (Voc/V)     | 48.92          | 49.02          | 49.12          | 49.22          | 49.32          | 49.42          |
| Short Circuit Current (Isc/A)    | 15.90          | 15.98          | 16.06          | 16.14          | 16.22          | 16.30          |
| Voltage at Maximum Power (Vmp/V) | 40.18          | 40.28          | 40.38          | 40.48          | 40.58          | 40.68          |
| Current at Maximum Power (Imp/A) | 15.18          | 15.27          | 15.35          | 15.44          | 15.52          | 15.61          |
| Module Efficiency(%)             | 22.58          | 22.77          | 22.95          | 23.14          | 23.32          | 23.51          |

## Electrical characteristics with different rear side power gain (Taking 615W as the baseline)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---------|-------|--------|-------|--------|-----------|
| 615     | 49.02 | 15.98  | 40.28 | 15.27  | 0%        |
| 646     | 49.02 | 16.78  | 40.28 | 16.03  | 5%        |
| 677     | 49.02 | 17.58  | 40.28 | 16.79  | 10%       |
| 707     | 49.12 | 18.38  | 40.38 | 17.51  | 15%       |
| 738     | 49.12 | 19.18  | 40.38 | 18.28  | 20%       |
| 769     | 49.12 | 19.98  | 40.38 | 19.04  | 25%       |

## Operating Parameters

|                                    |               |
|------------------------------------|---------------|
| Operational Temperature            | -40°C ~ +85°C |
| Power Output Tolerance             | 0 ~ 3%        |
| Maximum System Voltage             | DC1500V (IEC) |
| Maximum Series Fuse Rating         | 35A           |
| 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  | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.280%/°C |