

# Hi-MO 5

## LR5-72HBD 530~550M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer • Smart Soldering • 9-busbar Half-cut Cell
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability

12

12-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

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

ISO 45001: 2018: Occupational Health and Safety

# LONGi



**21.5%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

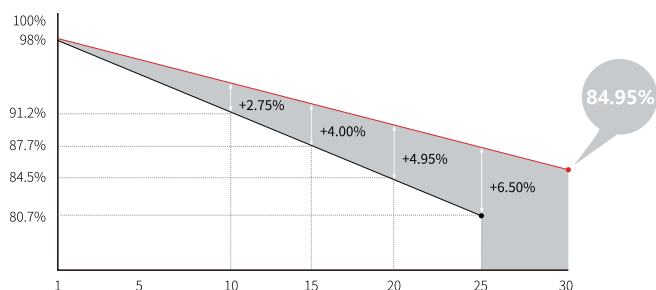
**<2%**  
FIRST YEAR  
POWER DEGRADATION

**0.45%**  
YEAR 2-30  
POWER DEGRADATION

**HALF-CELL**  
Lower operating temperature

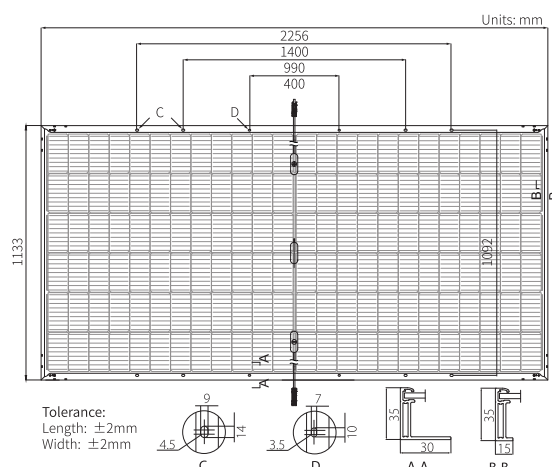
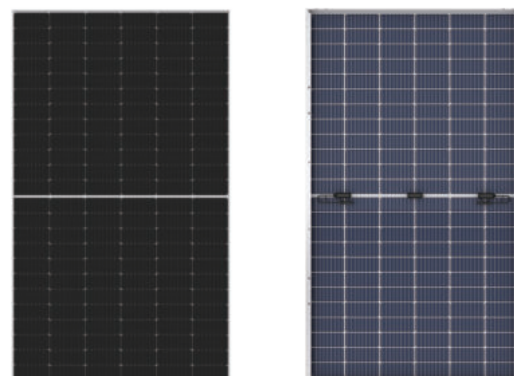
## Additional Value

### 30-Year Power Warranty



## 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            | Dual glass, 2.0+2.0mm heat strengthened glass                       |
| Frame            | Anodized aluminum alloy frame                                       |
| Weight           | 32.3kg                                                              |
| Dimension        | 2256×1133×35mm                                                      |
| Packaging        | 31pcs per pallet / 155pcs per 20' GP / 620pcs 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 Pmax: ±3%

| Module Type                      | LR5-72HBD-530M |       | LR5-72HBD-535M |       | LR5-72HBD-540M |       | LR5-72HBD-545M |       | LR5-72HBD-550M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 530            | 396.2 | 535            | 399.9 | 540            | 403.6 | 545            | 407.4 | 550            | 411.1 |
| Open Circuit Voltage (Voc/V)     | 49.20          | 46.26 | 49.35          | 46.40 | 49.50          | 46.54 | 49.65          | 46.68 | 49.80          | 46.82 |
| Short Circuit Current (Isc/A)    | 13.71          | 11.07 | 13.78          | 11.12 | 13.85          | 11.17 | 13.92          | 11.23 | 13.99          | 11.29 |
| Voltage at Maximum Power (Vmp/V) | 41.35          | 38.58 | 41.50          | 38.72 | 41.65          | 38.86 | 41.80          | 39.00 | 41.95          | 39.14 |
| Current at Maximum Power (Imp/A) | 12.82          | 10.27 | 12.90          | 10.33 | 12.97          | 10.39 | 13.04          | 10.45 | 13.12          | 10.51 |
| Module Efficiency(%)             | 20.7           |       | 20.9           |       | 21.1           |       | 21.3           |       | 21.5           |       |

## Operating Parameters

|                                    |                           |
|------------------------------------|---------------------------|
| Operational Temperature            | -40°C ~ +85°C             |
| Power Output Tolerance             | 0 ~ 3%                    |
| Voc and Isc Tolerance              | ±3%                       |
| Maximum System Voltage             | DC1500V (IEC/UL)          |
| Maximum Series Fuse Rating         | 30A                       |
| Nominal Operating Cell Temperature | 45±2°C                    |
| Protection Class                   | Class II                  |
| Bifaciality                        | 70±5%                     |
| Fire Rating                        | UL type 29<br>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  | -0.265%/°C |
| Temperature Coefficient of Pmax | -0.340%/°C |