

Hi-MO 7

LR5-72HGD 560~590M

- High-performance PV modules for utility power plants
- Advanced HPDC cell technology delivers superior module efficiency and power
- High bifaciality and excellent power temperature coefficient achieves high energy yield
- LONGi lifecycle quality ensures long-term performance



12-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



22.8%
MAX MODULE
EFFICIENCY

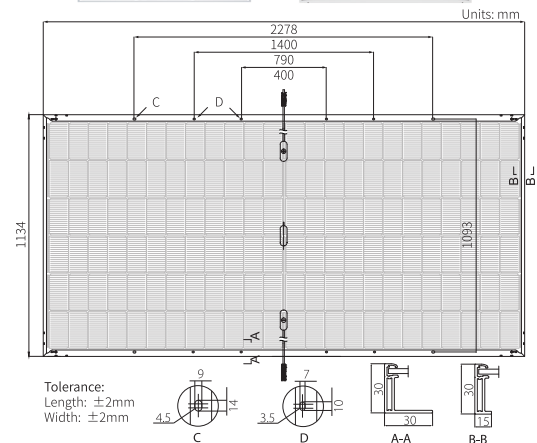
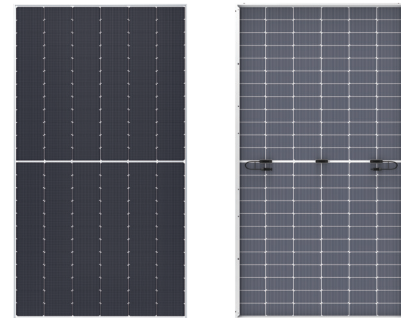
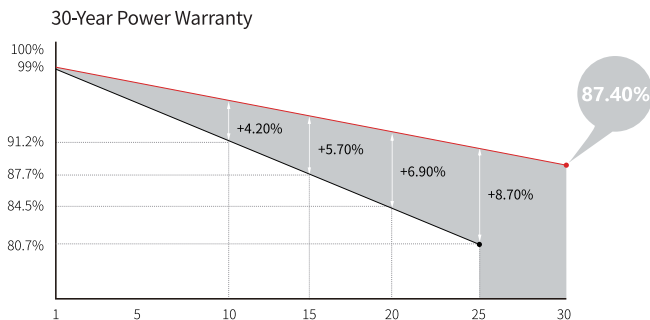
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.4%
YEAR 2-30
POWER DEGRADATION

HALF-CELL
Lower operating temperature

Additional Value



Mechanical Parameters

| | |
|------------------|---|
| Cell Orientation | 144 (6×24) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , +400, -200mm/±1400mm length can be customized |
| Glass | Dual glass, 2.0+2.0mm heat strengthened glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 31.8kg |
| Dimension | 2278×1134×30mm |
| Packaging | 36pcs per pallet / 180pcs 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: $\pm 3\%$

| Module Type | LR5-72HGD-560M | | LR5-72HGD-565M | | LR5-72HGD-570M | | LR5-72HGD-575M | | LR5-72HGD-580M | | LR5-72HGD-585M | | LR5-72HGD-590M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 560 | 426.3 | 565 | 430.1 | 570 | 433.9 | 575 | 437.7 | 580 | 441.5 | 585 | 445.3 | 590 | 449.1 |
| Open Circuit Voltage (Voc/V) | 50.99 | 48.46 | 51.09 | 48.55 | 51.19 | 48.65 | 51.30 | 48.75 | 51.41 | 48.86 | 51.52 | 48.96 | 51.63 | 49.07 |
| Short Circuit Current (Isc/A) | 13.89 | 11.16 | 13.97 | 11.22 | 14.05 | 11.29 | 14.14 | 11.35 | 14.22 | 11.42 | 14.30 | 11.48 | 14.38 | 11.55 |
| Voltage at Maximum Power (Vmp/V) | 42.82 | 40.69 | 42.91 | 40.78 | 43.00 | 40.87 | 43.11 | 40.97 | 43.22 | 41.07 | 43.33 | 41.18 | 43.44 | 41.28 |
| Current at Maximum Power (Imp/A) | 13.08 | 10.48 | 13.17 | 10.55 | 13.26 | 10.62 | 13.34 | 10.68 | 13.42 | 10.75 | 13.51 | 10.82 | 13.59 | 10.89 |
| Module Efficiency(%) | 21.7 | | 21.9 | | 22.1 | | 22.3 | | 22.5 | | 22.6 | | 22.8 | |

Electrical characteristics with different rear side power gain (reference to 575W front)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---------|-------|--------|-------|--------|-----------|
| 604 | 51.30 | 14.84 | 43.11 | 14.00 | 5% |
| 633 | 51.30 | 15.55 | 43.11 | 14.67 | 10% |
| 661 | 51.40 | 16.26 | 43.21 | 15.34 | 15% |
| 690 | 51.40 | 16.96 | 43.21 | 16.01 | 20% |
| 719 | 51.40 | 17.67 | 43.21 | 16.67 | 25% |

Operating Parameters

| | |
|------------------------------------|---------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC/UL) |
| Maximum Series Fuse Rating | 30A |
| Nominal Operating Cell Temperature | 45±2°C |
| Protection Class | Class II |
| Bifaciality | 80±5% |
| Fire Rating | UL type 29 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 | +0.045%/°C |
| Temperature Coefficient of Voc | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.280%/°C |