

Hi-MO 5m

(G2)

LR5-66HIH 490~510M

- Based on M10 wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
 - M10 Gallium-doped Wafer • Integrated Segmented Ribbons • 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability



12-year Warranty for Materials and Processing



25-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



21.5%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

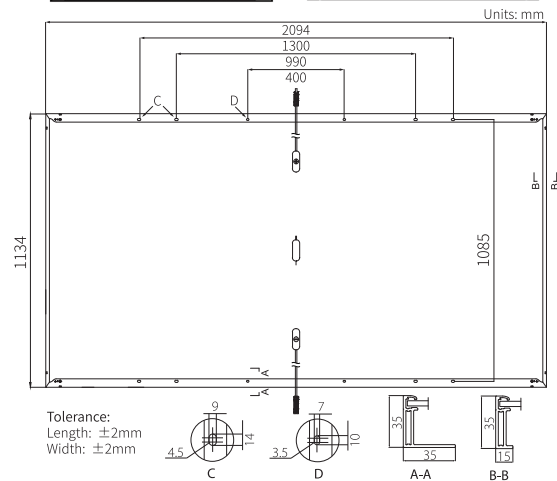
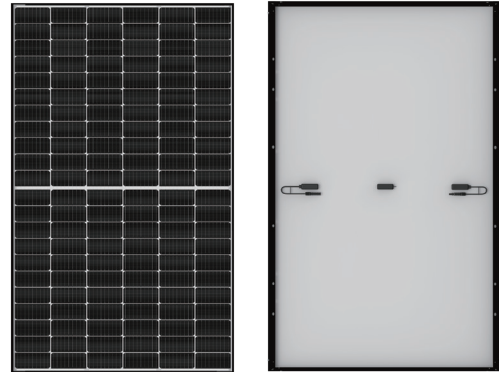
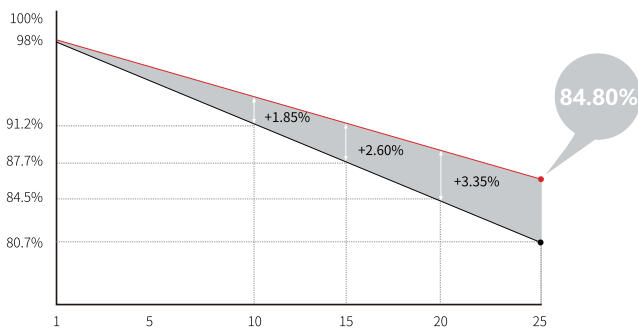
<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

HALF-CELL
Lower operating temperature

Additional Value

25-Year Power Warranty



Mechanical Parameters

| | |
|------------------|--|
| Cell Orientation | 132 (6×22) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , +400, -200mm/ ± 1400 mm length can be customized |
| Glass | Single glass, 3.2mm coated tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 26.0kg |
| Dimension | 2094×1134×35mm |
| Packaging | 31pcs per pallet / 155pcs per 20' GP / 682pcs 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 | LR5-66HIH-490M | | LR5-66HIH-495M | | LR5-66HIH-500M | | LR5-66HIH-505M | | LR5-66HIH-510M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 490 | 366.3 | 495 | 370.0 | 500 | 373.7 | 505 | 377.5 | 510 | 381.2 |
| Open Circuit Voltage (Voc/V) | 45.25 | 42.55 | 45.40 | 42.69 | 45.55 | 42.83 | 45.70 | 42.97 | 45.85 | 43.11 |
| Short Circuit Current (Isc/A) | 13.74 | 11.11 | 13.82 | 11.17 | 13.90 | 11.24 | 13.97 | 11.30 | 14.05 | 11.36 |
| Voltage at Maximum Power (Vmp/V) | 38.08 | 35.37 | 38.23 | 35.51 | 38.38 | 35.65 | 38.53 | 35.79 | 38.68 | 35.93 |
| Current at Maximum Power (Imp/A) | 12.87 | 10.35 | 12.95 | 10.42 | 13.03 | 10.48 | 13.11 | 10.55 | 13.19 | 10.61 |
| Module Efficiency(%) | 20.6 | | 20.8 | | 21.1 | | 21.3 | | 21.5 | |

Operating Parameters

| | |
|------------------------------------|-------------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0~3% |
| Voc and Isc Tolerance | $\pm 3\%$ |
| Maximum System Voltage | DC1500V (IEC/UL) |
| Maximum Series Fuse Rating | 25A |
| Nominal Operating Cell Temperature | 45 ± 2 °C |
| Protection Class | Class II |
| Fire Rating | UL type 1 or 2 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 |