

Hi-MO 5m

(G2)

LR5-66HIH 505~515M

- 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

The LONGI logo, consisting of the word "LONGI" in a bold, red, sans-serif font.



21.7%
MAX MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

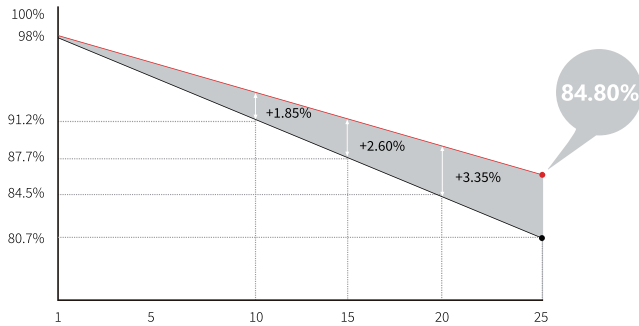
<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

HALF-CELL
Lower operating temperature

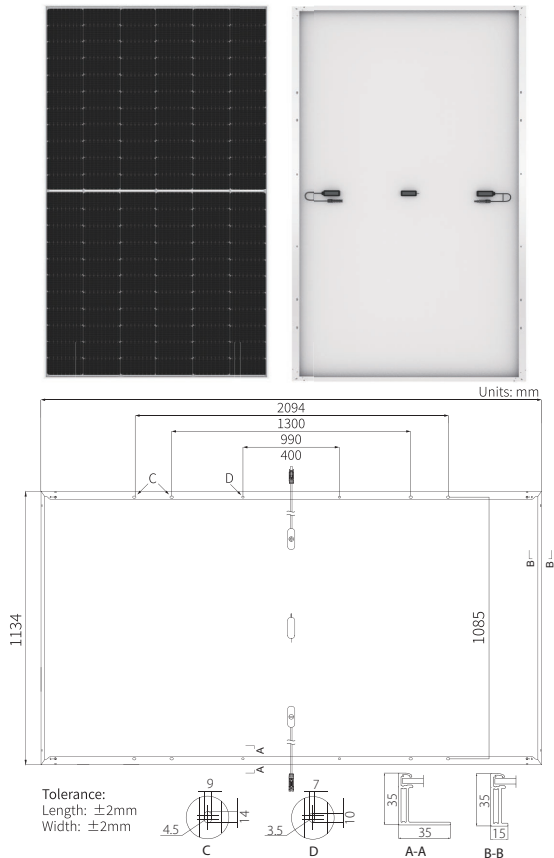
Additional Value

25-Year Power Warranty



Mechanical Parameters

| | |
|------------------|--|
| Cell Orientation | 132 (6×22) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , +400, -200mm/±1400mm |
| Connector | LONGI PV-LR5 / Staubli MC4 EVO2 |
| 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 P_{max}: ±3%

| Module Type | LR5-66HIH-505M | | LR5-66HIH-510M | | LR5-66HIH-515M | |
|---|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (P _{max} /W) | 505 | 377.5 | 510 | 381.2 | 515 | 384.9 |
| Open Circuit Voltage (V _{oc} /V) | 45.70 | 42.97 | 45.85 | 43.11 | 46.00 | 43.25 |
| Short Circuit Current (I _{sc} /A) | 13.97 | 11.30 | 14.05 | 11.36 | 14.13 | 11.42 |
| Voltage at Maximum Power (V _{mp} /V) | 38.53 | 35.79 | 38.68 | 35.93 | 38.83 | 36.07 |
| Current at Maximum Power (I _{mp} /A) | 13.11 | 10.55 | 13.19 | 10.61 | 13.27 | 10.67 |
| Module Efficiency(%) | 21.3 | | 21.5 | | 21.7 | |

Operating Parameters

| | |
|---|-------------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0~+5W |
| V _{oc} and I _{sc} Tolerance | ±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 I _{sc} | +0.050%/°C |
| Temperature Coefficient of V _{oc} | -0.265%/°C |
| Temperature Coefficient of P _{max} | -0.340%/°C |