

Hi-MO 6

Scientist

LR5-54HTB 440~450M

- Suitable for Distribution Market
- Pure black for extreme elegance
- Highest efficiency with the best energy generation performance
- Better product warranty, better service



25-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



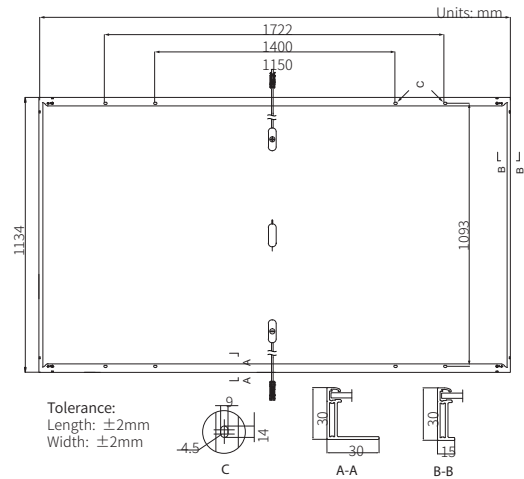
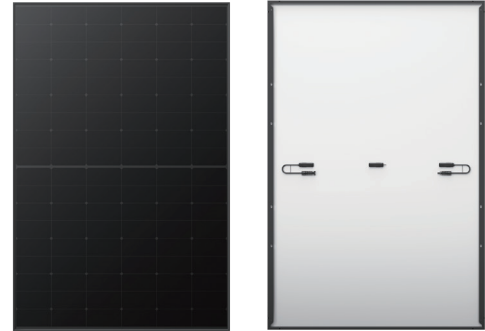
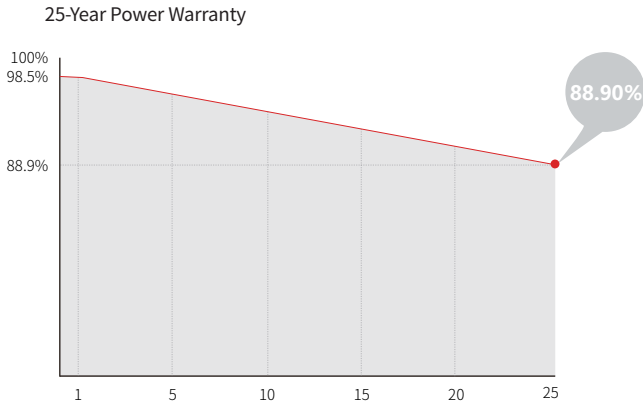
23.0%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

| | |
|------------------|--|
| Cell Orientation | 108 (6×18) |
| Junction Box | IP68 |
| Output Cable | 4mm ² , ± 1200 mm length can be customized |
| Glass | Single glass, 3.2mm coated tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 20.8kg |
| Dimension | 1722×1134×30mm |
| Packaging | 36pcs per pallet / 216pcs per 20' GP / 936pcs 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}: $\pm 3\%$

| Module Type | LR5-54HTB-440M | | LR5-54HTB-445M | | LR5-54HTB-450M | |
|---|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (P _{max} /W) | 440 | 329 | 445 | 333 | 450 | 337 |
| Open Circuit Voltage (V _{oc} /V) | 39.83 | 37.40 | 40.03 | 37.58 | 40.23 | 37.77 |
| Short Circuit Current (I _{sc} /A) | 14.15 | 11.43 | 14.23 | 11.49 | 14.31 | 11.55 |
| Voltage at Maximum Power (V _{mp} /V) | 33.56 | 30.62 | 33.76 | 30.81 | 33.96 | 30.99 |
| Current at Maximum Power (I _{mp} /A) | 13.12 | 10.75 | 13.19 | 10.82 | 13.27 | 10.88 |
| Module Efficiency(%) | 22.5 | | 22.8 | | 23.0 | |

Operating Parameters

| | |
|---|-------------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| V _{oc} and I _{sc} 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 I _{sc} | +0.050%/°C |
| Temperature Coefficient of V _{oc} | -0.230%/°C |
| Temperature Coefficient of P _{max} | -0.290%/°C |