

Hi-MO 6

Scientist

LR5-54HTH 440~450M

- Suitable for Distribution Market
- Simple design embodies modern style
- 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

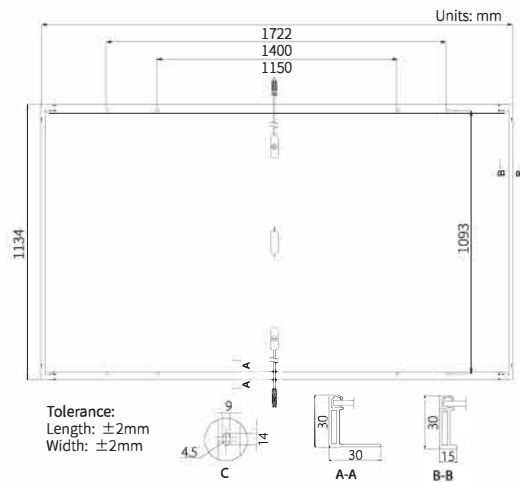
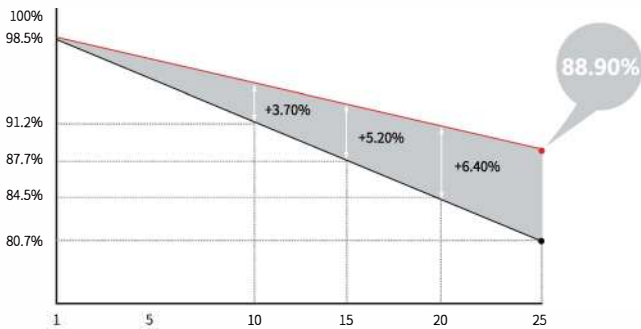
±5W
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value

25-Year Power Warranty



Mechanical Parameters

| | |
|------------------|--|
| Cell Orientation | 108 (6×18) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , ±1200mm 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 Pmax: ±3%

| Module Type | LR5-54HTH-440M | | LR5-54HTH-445M | | LR5-54HTH-450M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 440 | 329 | 445 | 332 | 450 | 336 |
| Open Circuit Voltage (Voc/V) | 39.53 | 37.11 | 39.73 | 37.30 | 39.93 | 37.49 |
| Short Circuit Current (Isc/A) | 14.30 | 11.55 | 14.37 | 11.61 | 14.45 | 11.67 |
| Voltage at Maximum Power (Vmp/V) | 33.24 | 30.33 | 33.44 | 30.51 | 33.64 | 30.70 |
| Current at Maximum Power (Imp/A) | 13.24 | 10.85 | 13.31 | 10.90 | 13.38 | 10.95 |
| Module Efficiency(%) | 22.5 | | 22.8 | | 23.0 | |

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 | 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 | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.290%/°C |