

Hi-MO X10 Scientist

LR7-60HVD

530~555M

- More flexible installation methods, suitable for short frame clamps mounting with high mechanical loading
- High efficiency with better energy generation performance
- N-type TaiRay wafer & HPBC 2.0 innovative technology enhances high product reliability
- Obtain class A fire rating test report

25

25-year Warranty for
Materials and Processing
Specifically for the UK & Irish market *

30

30-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 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



24.6%
EFFICIENCY

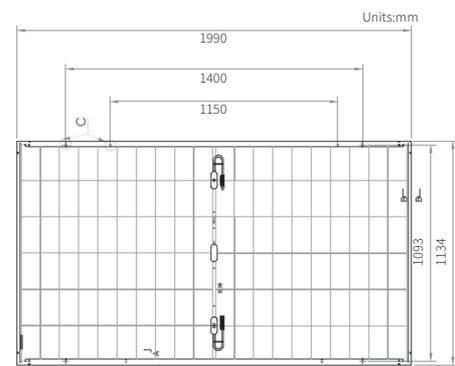
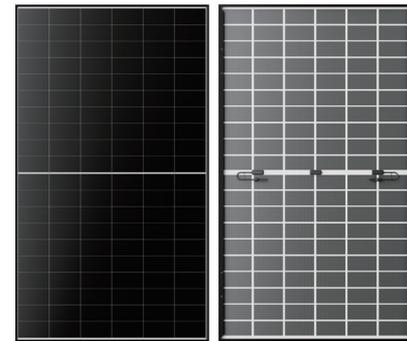
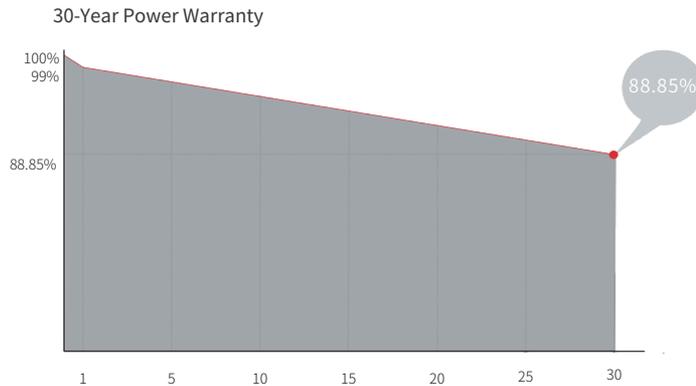
0~3%
TOLERANCE

<1%
FIRST YEAR POWER
DEGRADATION

0.35%
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

Additional Value



Tolerance:
Length: ± 2 mm
Width: ± 2 mm



Mechanical Parameters

| | |
|------------------|---|
| Cell Orientation | 120 (6×20) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² +400, -200mm/±1400mm length can be customized |
| Glass | Double glass 2.0mm coated tempered glass+2.0mm semi-tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 28kg |
| Dimension | 1990×1134×30mm |
| Packaging | 36pcs per pallet / 180pcs per 20' GP / 792pcs 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 | LR7-60HVD-530M | | LR7-60HVD-535M | | LR7-60HVD-540M | | LR7-60HVD-545M | | LR7-60HVD-550M | | LR7-60HVD-555M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT |
| Testing Condition | STC | NOCT |
| Maximum Power (Pmax/W) | 530 | 403 | 535 | 407 | 540 | 411 | 545 | 415 | 550 | 419 | 555 | 422 |
| Open Circuit Voltage (Voc/V) | 44.95 | 42.72 | 45.05 | 42.82 | 45.15 | 42.91 | 45.25 | 43.01 | 45.35 | 43.10 | 45.45 | 43.20 |
| Short Circuit Current (Isc/A) | 14.90 | 11.97 | 15.00 | 12.05 | 15.10 | 12.13 | 15.20 | 12.21 | 15.30 | 12.29 | 15.40 | 12.37 |
| Voltage at Maximum Power (Vmp/V) | 37.17 | 35.32 | 37.27 | 35.41 | 37.37 | 35.51 | 37.47 | 35.60 | 37.57 | 35.70 | 37.67 | 35.79 |
| Current at Maximum Power (Imp/A) | 14.26 | 11.42 | 14.36 | 11.50 | 14.45 | 11.58 | 14.55 | 11.65 | 14.64 | 11.73 | 14.73 | 11.80 |
| Module Efficiency(%) | 23.5 | | 23.7 | | 23.9 | | 24.2 | | 24.4 | | 24.6 | |

Operating Parameters

| | |
|------------------------------------|---------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC) |
| Maximum Series Fuse Rating | 30A |
| Nominal Operating Cell Temperature | 45±2°C |
| Protection Class | Class II |
| Bifaciality | 70±5% |
| Fire Rating | IEC Class A |

Mechanical Loading

| | |
|-------------------------------|--------------------------------------|
| Front Side Maximum Static | 5400Pa |
| Loading Rear Side Maximum | 2400Pa |
| Static Loading Hailstone Test | 25mm Hailstone at the speed of 23m/s |

Temperature Ratings (STC)

| | |
|---------------------------------|------------|
| Temperature Coefficient of Isc | +0.050%/°C |
| Temperature Coefficient of Voc | -0.200%/°C |
| Temperature Coefficient of Pmax | -0.260%/°C |