

# Hi-MO X10 Scientist

LR7-60HVH

## 535~560M

- 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

**15** 15-year Warranty for Materials and Processing

**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**



**24.82%**  
EFFICIENCY

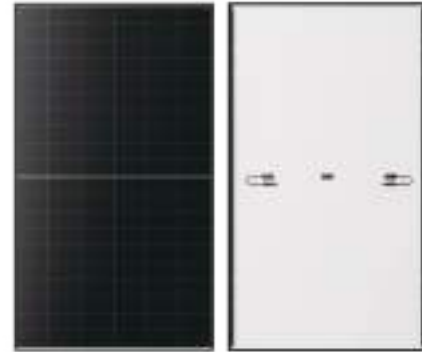
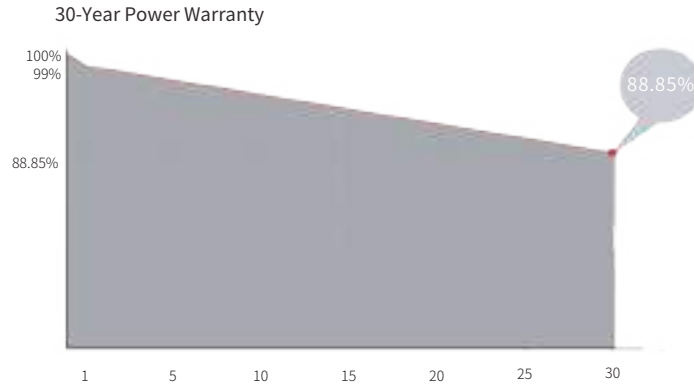
**0~3%**  
TOLERANCE

**1%**  
FIRST YEAR POWER  
DEGRADATION

**0.35%**  
POWER DEGRADATION

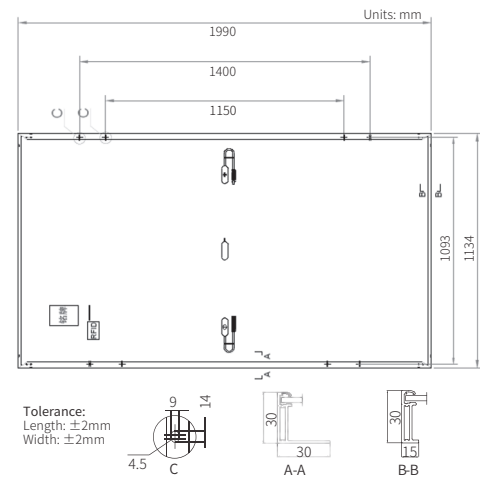
**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

## Additional Value



## Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±1400mm length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24.5kg
Dimension	1990×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 792pcs per 40' HC



## Electrical Characteristics STC : AM1.5 1000W/m<sup>2</sup> 25°C

Test uncertainty for P<sub>max</sub>: ±3%

Module Type	LR7-60HVH-535M	LR7-60HVH-540M	LR7-60HVH-545M	LR7-60HVH-550M	LR7-60HVH-555M	LR7-60HVH-560M
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (P <sub>max</sub> /W)	535	540	545	550	555	560
Open Circuit Voltage (V <sub>oc</sub> /V)	44.78	44.88	44.98	45.08	45.18	45.28
Short Circuit Current (I <sub>sc</sub> /A)	15.15	15.25	15.35	15.45	15.55	15.65
Voltage at Maximum Power (V <sub>mp</sub> /V)	37.01	37.11	37.21	37.31	37.41	37.51
Current at Maximum Power (I <sub>mp</sub> /A)	14.46	14.55	14.65	14.74	14.84	14.93
Module Efficiency(%)	23.71	23.93	24.15	24.37	24.59	24.82

## Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C

## 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 I <sub>sc</sub>	+0.050%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.200%/°C
Temperature Coefficient of P <sub>max</sub>	-0.260%/°C