

# Hi-MO X10 Scientist

## LR7-72HVV 655~670M

- Suitable for Distribution Market
- Highest efficiency with the best energy generation performance
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

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, 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



24.8%  
MAX MODULE  
EFFICIENCY

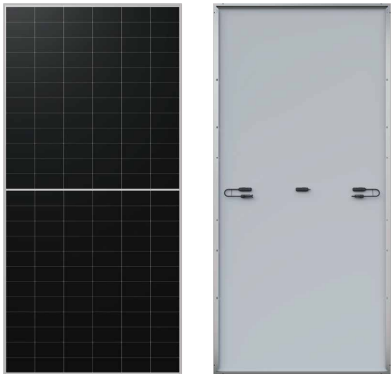
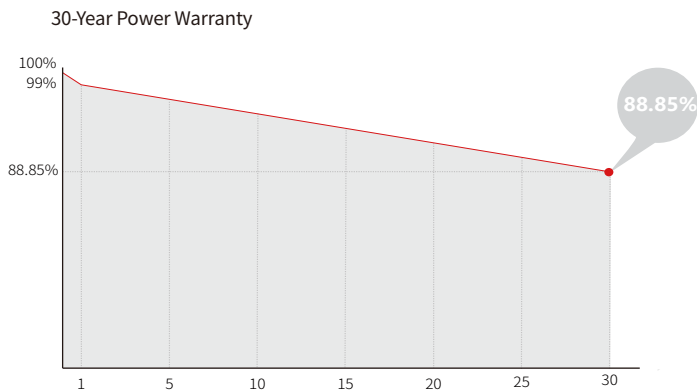
0~3%  
POWER  
TOLERANCE

<1%  
FIRST YEAR  
POWER DEGRADATION

0.35%  
YEAR 2-30  
POWER DEGRADATION

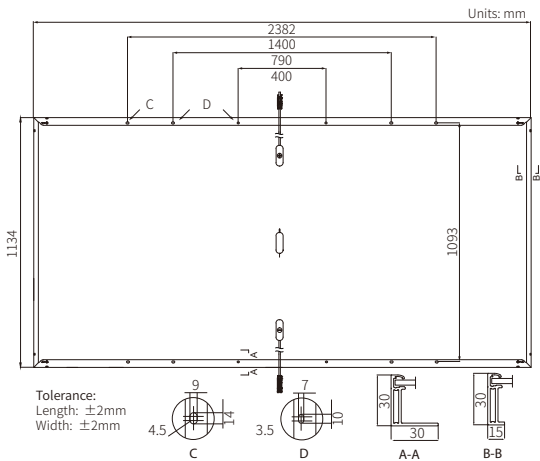
BC-CELL  
LOWER OPERATING  
TEMPERATURE

Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	28.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs 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%	
	LR7-72HVH-655M	LR7-72HVH-660M	LR7-72HVH-665M	LR7-72HVH-670M		
Module Type						
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	655	499	660	502	665	506
Open Circuit Voltage (Voc/V)	54.00	51.32	54.10	51.42	54.20	51.51
Short Circuit Current (Isc/A)	15.37	12.34	15.45	12.41	15.52	12.47
Voltage at Maximum Power (Vmp/V)	44.66	42.44	44.76	42.54	44.86	42.63
Current at Maximum Power (Imp/A)	14.67	11.76	14.75	11.82	14.83	11.88
Module Efficiency(%)	24.2		24.4		24.6	24.8

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 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	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C