Hi-MO X10 Explorer

LR7-72HVD

635~645M

- Suitable for Distribution Market
- Peak efficiency with top power generation performance
- TaiRay wafer & BC technology enhances high product reliability
- More suitable for industrial and commercial cement roofs and high temperature scenarios

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

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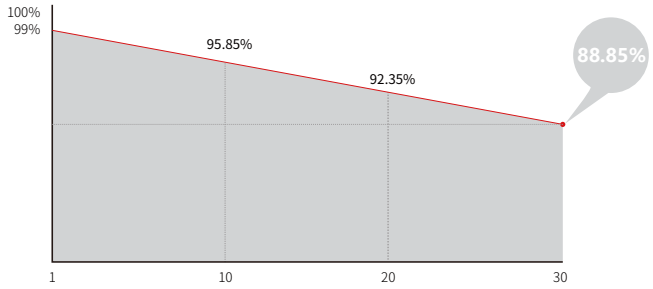
Hi-MO X10 Explorer

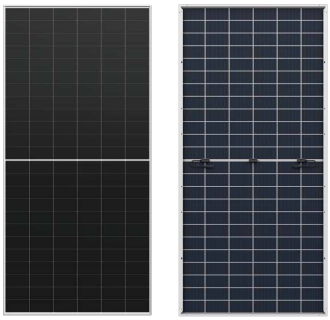
LR7-72HVD 635~645M

23.9%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

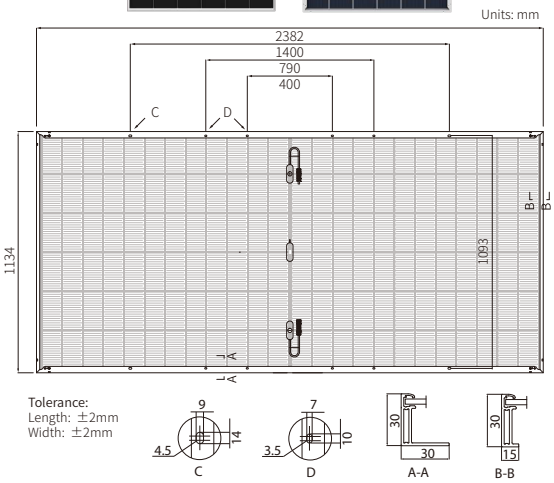
Additional Value

30-Year Power Warranty





Units: mm



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg
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%

Module Type	LR7-72HVD-635M		LR7-72HVD-640M		LR7-72HVD-645M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	635	483.4	640	487.2	645	491.0
Open Circuit Voltage (Voc/V)	53.92	51.24	54.02	51.34	54.12	51.43
Short Circuit Current (Isc/A)	14.89	11.96	14.98	12.03	15.06	12.10
Voltage at Maximum Power (Vmp/V)	44.57	42.36	44.67	42.45	44.77	42.55
Current at Maximum Power (Imp/A)	14.25	11.42	14.33	11.49	14.41	11.55
Module Efficiency(%)	23.5		23.7		23.9	

Electrical characteristics with different rear side power gain (reference to 645W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
677	54.12	15.81	44.77	15.13	5%
710	54.12	16.57	44.77	15.85	10%
744	54.22	17.32	44.87	16.57	15%
776	54.22	18.07	44.87	17.29	20%
808	54.22	18.83	44.87	18.01	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	UL type 29 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

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Specifications included in this datasheet are subject to change without notice.
LONGi reserves the right of final interpretation. (20241227 BGV03 Draft)