

Hi-MO X10 Explorer

LR7-72HVD

625~645M

- 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

Authorised National Distributor

INB SOLAR
PAKISTAN

Importer | Wholesaler | Retailer

Head Sales Team:

M. Maaz : +92 326 8327099

Sunaif Sheikh: +92 300 9231555



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LR7-72HVD 625~645M

23.9%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

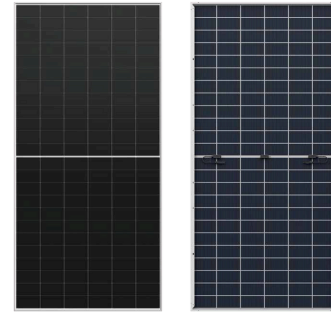
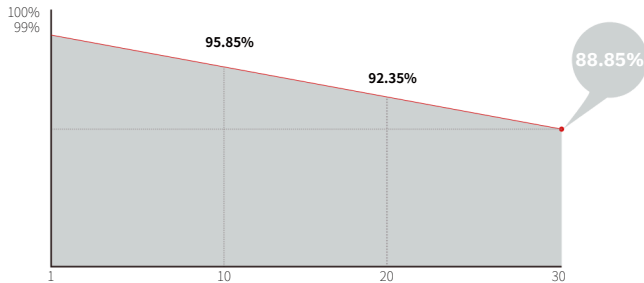
<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

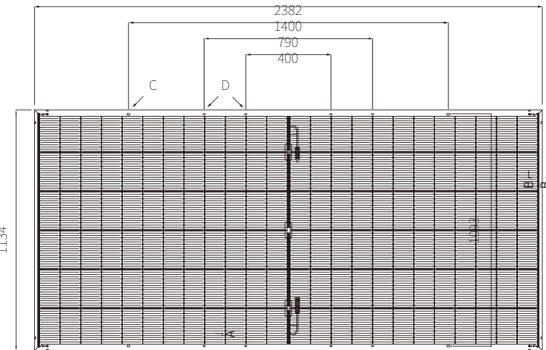
BC-CELL
LOWER OPERATING
TEMPERATURE

Additional Value

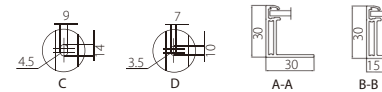
30-Year Power Warranty



Units: mm



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



Mechanical Parameters

Cell	144 (6×24)
Orientation	IP68, three diodes
Junction Box	4mm ² , +400, -200mm/±1400mm length can be customized
Output Cable	
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: $\pm 3\%$

Module Type Testing Condition	LR7-72HVD-625M		LR7-72HVD-630M		LR7-72HVD-635M		LR7-72HVD-640M		LR7-72HVD-645M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W) Open	625	475.8	630	479.6	635	483.4	640	487.2	645	491.0
Circuit Voltage (Voc/V) Short	53.30	50.65	53.40	50.75	53.50	50.84	53.60	50.94	53.70	51.03
Circuit Current (Isc/A) Voltage at	14.85	11.93	14.93	12.00	15.01	12.06	15.09	12.12	15.17	12.18
Maximum Power (Vmp/V)	44.16	41.97	44.26	42.06	44.36	42.16	44.46	42.25	44.56	42.35
Current at Maximum Power	14.16	11.35	14.24	11.42	14.32	11.48	14.40	11.54	14.48	11.61
(Imp/A) Module Efficiency(%)	23.1		23.3		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	53.70	15.93	44.56	15.20	5%
710	53.70	16.69	44.56	15.93	10%
744	53.80	17.45	44.66	16.65	15%
776	53.80	18.20	44.66	17.38	20%
808	53.80	18.96	44.66	18.10	25%

Operating Parameters

Operational Temperature Power	-40°C ~ +85°C
Output Tolerance Maximum	0 ~ 3%
System Voltage Maximum Series	DC1500V (IEC/UL)
Fuse Rating Nominal Operating	30A
Cell Temperature Protection	45 \pm 2°C
Class Bifaciality	Class II
Fire Rating	70 \pm 5%
	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 (20240929V01)