Hi-MO X6 max Guardian

Anti Humidty & Heat

LR7-72HTDR

600~625M

- Unique cell structure, superior resistance to humidity & heat degradation
- Water resistant encapsulation, resist moisture intrusion
- Ultra-low power degradation, superior power generation throughout lifecycle
- LONGi system escort, safe and reliable use

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

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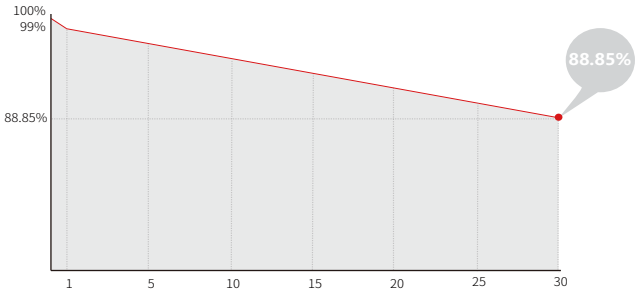
Hi-MO X6 Max Guardian Anti Humidty & Heat

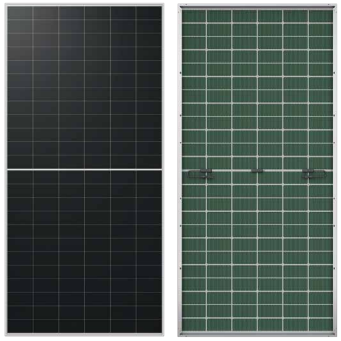
LR7-72HTDR 600~625M

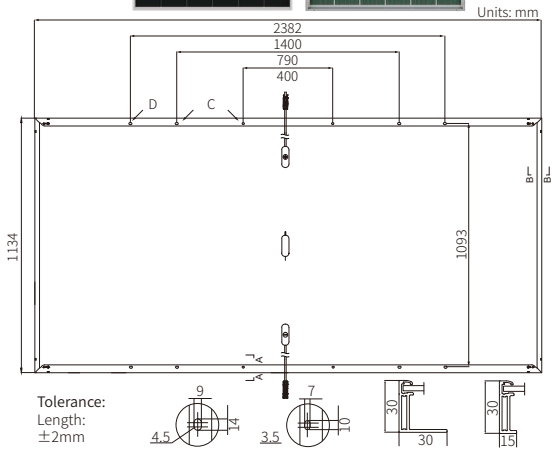
23.1%	0~3%	<1%	0.35%
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION

Additional Value

30-Year Power Warranty







Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0mm+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	LR7-72HTDR-600M		LR7-72HTDR-605M		LR7-72HTDR-610M		LR7-72HTDR-615M		LR7-72HTDR-620M		LR7-72HTDR-625M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	600	448.3	605	452.0	610	455.8	615	459.5	620	463.3	625	467.0
Open Circuit Voltage (Voc/V)	52.51	49.30	52.66	49.44	52.81	49.58	52.96	49.72	53.11	49.86	53.26	50.00
Short Circuit Current (Isc/A)	14.55	11.75	14.62	11.81	14.69	11.87	14.75	11.92	14.82	11.97	14.90	12.04
Voltage at Maximum Power (Vmp/V)	44.19	40.32	44.33	40.45	44.48	40.59	44.63	40.72	44.78	40.86	44.93	41.00
Current at Maximum Power (Imp/A)	13.58	11.12	13.65	11.17	13.72	11.23	13.78	11.29	13.85	11.33	13.92	11.40
Module Efficiency(%)	22.2		22.4		22.6		22.8		23.0		23.1	

Electrical characteristics with different rear side power gain (reference to 605W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
635	52.66	15.35	44.33	14.33	5%
666	52.66	16.08	44.33	15.02	10%
696	52.76	16.81	44.43	15.70	15%
726	52.76	17.54	44.43	16.38	20%
756	52.76	18.28	44.43	17.06	25%

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	60±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	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C

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Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20240527 V2) DG