

Hi-MO X10 Guardian Anti-Dust

LR7-72HVHF 640~670M

- Equipped with HPBC 2.0 cell, inheriting high-efficiency gene
- Unique frame design effectively reduces the impact of dust accumulation and improves power generation gain throughout the entire lifecycle
- High reliability, stable operation under harsh conditions
- More suitable for industrial and commercial color steel tile roofs and small angle installation 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

LONGI



LR7-72HVHF 640~670M

24.8%
MAX MODULE
EFFICIENCY

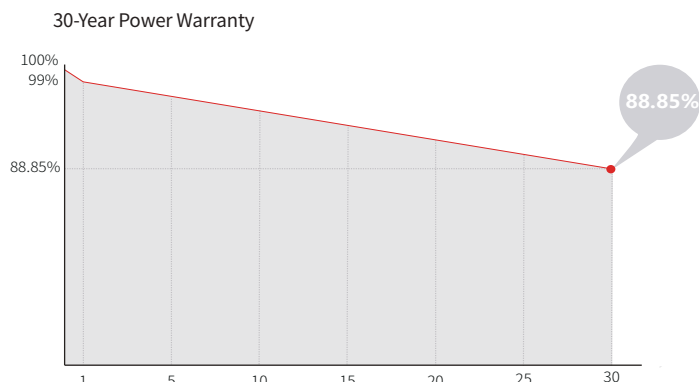
0~3%
POWER BINNING
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

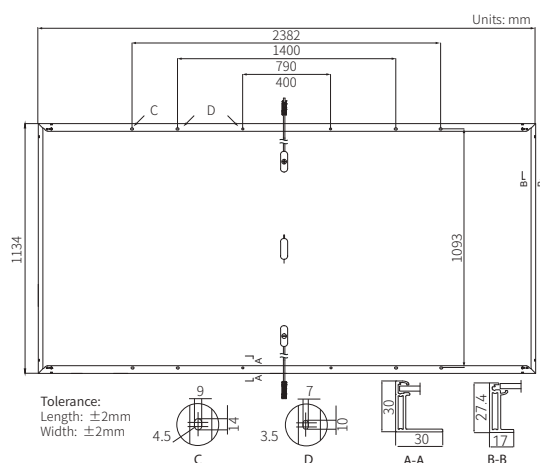
BC-CELL
LOWER OPERATING
TEMPERATURE

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	35pcs per pallet / 140pcs per 20' GP / 700pcs per 40' HC
Connector	EVO2A(Staublei) or PV-LR5(LONGi)



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	LR7-72HVHF-640M				LR7-72HVHF-645M				LR7-72HVHF-650M				LR7-72HVHF-655M				LR7-72HVHF-660M				LR7-72HVHF-665M				LR7-72HVHF-670M			
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT				
Maximum Power (Pmax/W)	640	487	645	491	650	495	655	499	660	502	665	506	670	510	675	514	680	518	685	522	690	526	695	530				
Open Circuit Voltage (Voc/V)	53.70	51.04	53.80	51.13	53.90	51.23	54.00	51.32	54.10	51.42	54.20	51.51	54.30	51.61	54.40	51.71	54.50	51.82	54.60	51.93	54.70	52.04	54.80	52.15				
Short Circuit Current (Isc/A)	15.13	12.15	15.21	12.22	15.29	12.28	15.37	12.34	15.45	12.41	15.52	12.47	15.60	12.53	15.68	12.59	15.75	12.65	15.83	12.71	15.90	12.77	15.97	12.83				
Voltage at Maximum Power (Vmp/V)	44.36	42.15	44.46	42.25	44.56	42.35	44.66	42.44	44.76	42.54	44.86	42.63	44.96	42.73	45.06	42.82	45.16	42.91	45.26	43.01	45.36	43.10	45.46	43.20				
Current at Maximum Power (Imp/A)	14.43	11.56	14.51	11.63	14.59	11.69	14.67	11.76	14.75	11.82	14.83	11.88	14.91	11.94	14.99	12.00	15.07	12.06	15.15	12.12	15.23	12.19	15.30	12.25				
Module Efficiency(%)	23.7		23.9		24.1		24.2		24.4		24.6		24.8		25.0		25.2		25.4		25.6		25.8					

Operating Parameters

Operational Temperature	-40°C ~ + 70°C
Power Binning Tolerance	0 ~ 3%
Power Measurement Tolerance	±3%
V _{OC} & I _{SC} Measurement Tolerance	±5%
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 Test Loading	5400Pa
Rear Side Maximum Static Test Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of I_{sc}	+0.050%/°C
Temperature Coefficient of V_{oc}	-0.200%/°C
Temperature Coefficient of P_{max}	-0.260%/°C