

LONGI

Hi-MO X6 Artist Ultra Black

LR5-54HTDB

415~430M

220_{W/m²}

Ultimate aesthetic: Pure black with artistic texture presents an elegant style.

Leading technology: No front grid lines design brings higher power gain and fully satisfies the household electricity needs.

Low-carbon lifestyle: Use solar power as the foundation to build a low-carbon life, and the product design follows the green idea, made without PFAS.

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

25

25-year Warranty for Materials and Processing

30

30-year Warranty for Extra Linear Power Output



22.0%
MAX MODULE
EFFICIENCY

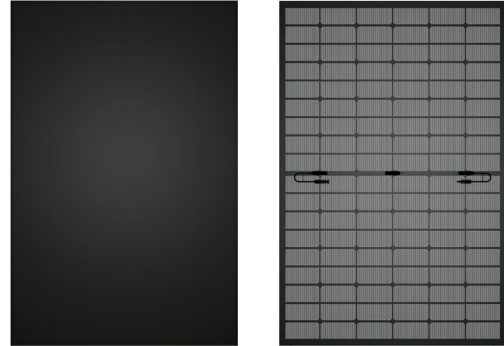
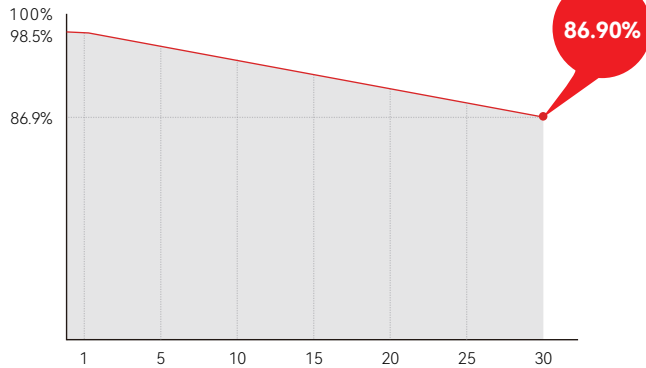
0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-30
POWER DEGRADATION

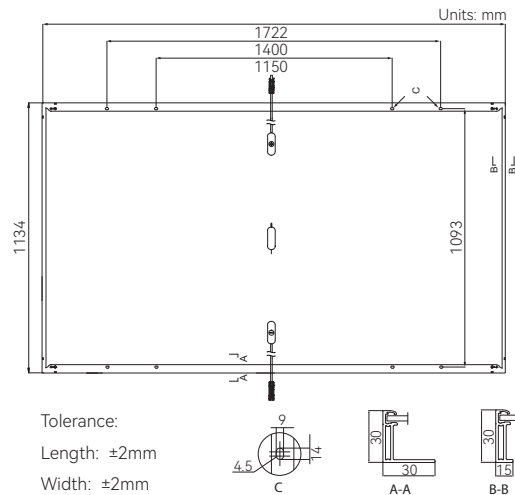
Additional Value

30-Year Power Warranty



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4 mm ² , ±1200 mm length can be customized
Glass	Double glass, 2.0 mm+1.6 mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	22.5 kg
Dimension	1722×1134×30 mm
Packaging	36 pcs per pallet / 216pcs per 20'GP / 936pcs per 40'HC



Electrical Characteristics

STC : AM 1.5 | 1000 W/m² | 25°C

NOCT : AM 1.5 | 800 W/m² | 20°C | 1m/s

Test uncertainty for Pmax: ±3%

Module Type	LR5-54HTDB-415M		LR5-54HTDB-420M		LR5-54HTDB-425M		LR5-54HTDB-430M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	310.1	420	313.8	425	317.6	430	321.3
Open Circuit Voltage (Voc/V)	39.25	36.85	39.45	37.04	39.65	37.23	39.85	37.42
Short Circuit Current (Isc/A)	13.46	10.87	13.54	10.94	13.61	10.99	13.69	11.06
Voltage at Maximum Power (Vmp/V)	32.87	29.99	33.07	30.18	33.27	30.36	33.47	30.54
Current at Maximum Power (Imp/A)	12.63	10.35	12.71	10.40	12.78	10.46	12.85	10.53
Module Efficiency (%)	21.3		21.5		21.8		22.0	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC 1500V (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	6000 Pa
Rear Side Maximum Static Loading	4000 Pa
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	-0.290%/°C