

LONGi

Hi-MO X6 Artist **Ultra Black**

LR5-54HTDB

420~435M

223 W/m^2



Ultimate Solar Design



Absolute in Technology



Uncompromised Quality



Green Power, Green Life

25

**25-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



22.3%

MAX MODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

<1.5%

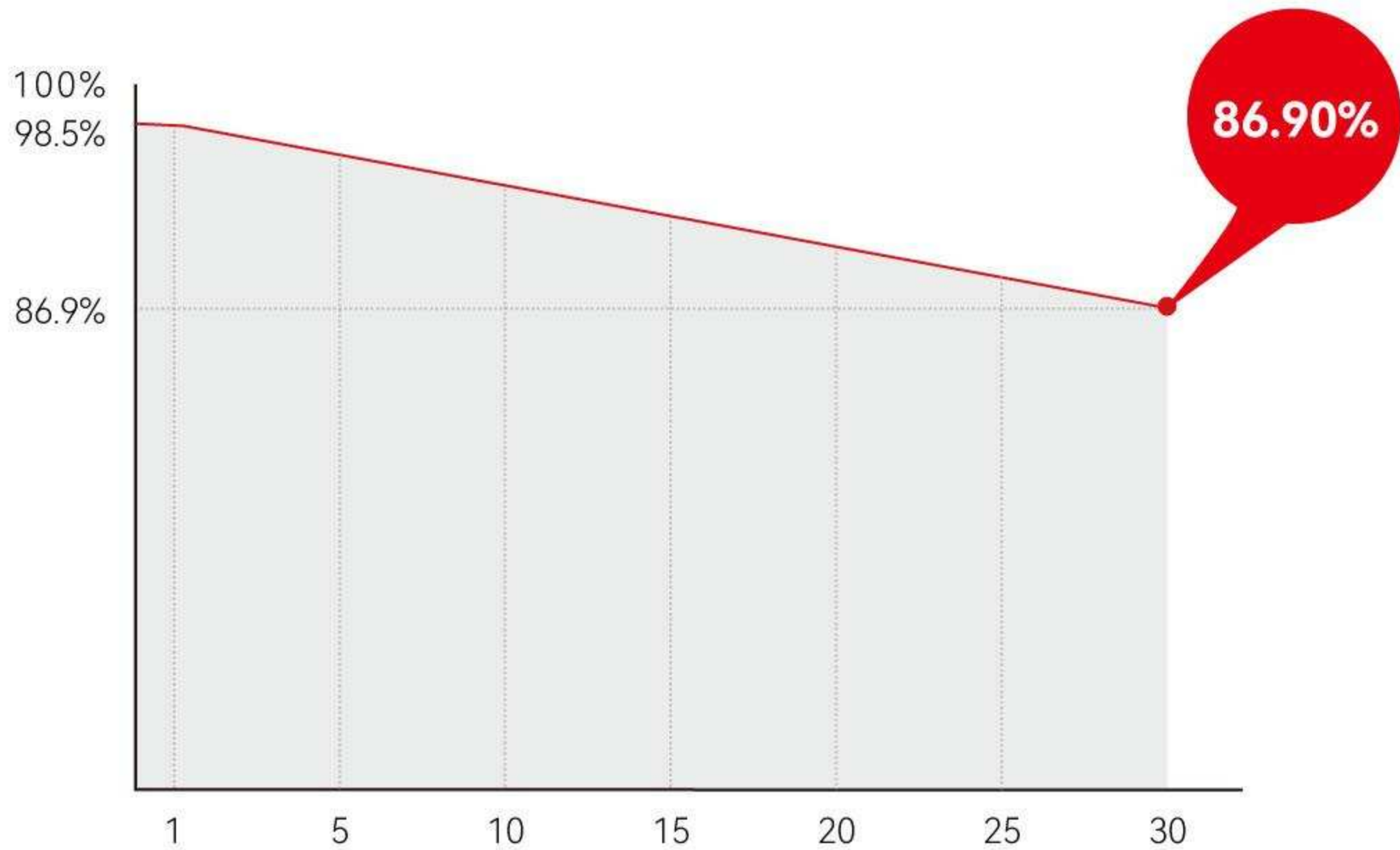
FIRST YEAR
POWER DEGRADATION

0.40%

YEAR 2-30
POWER DEGRADATION

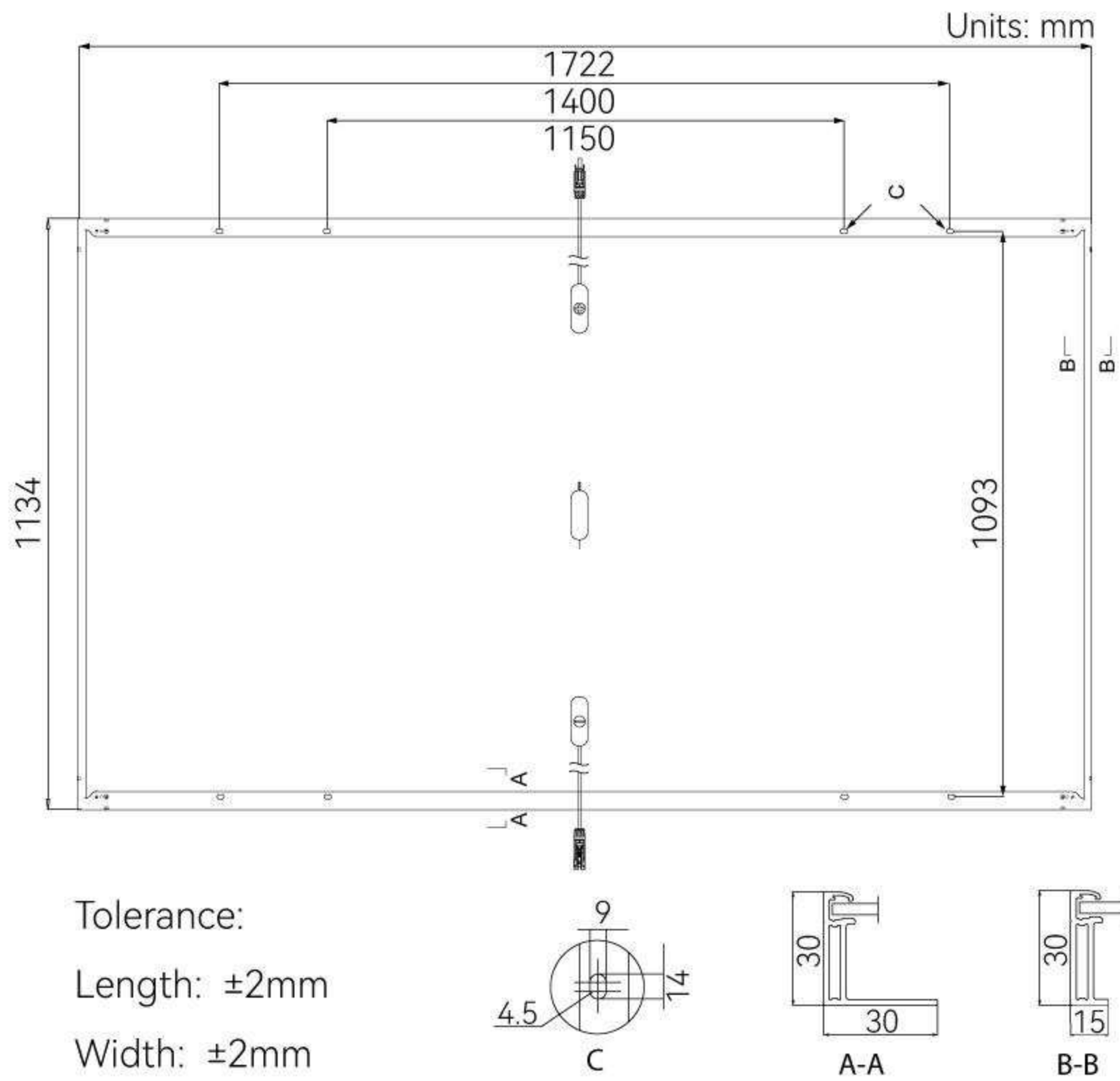
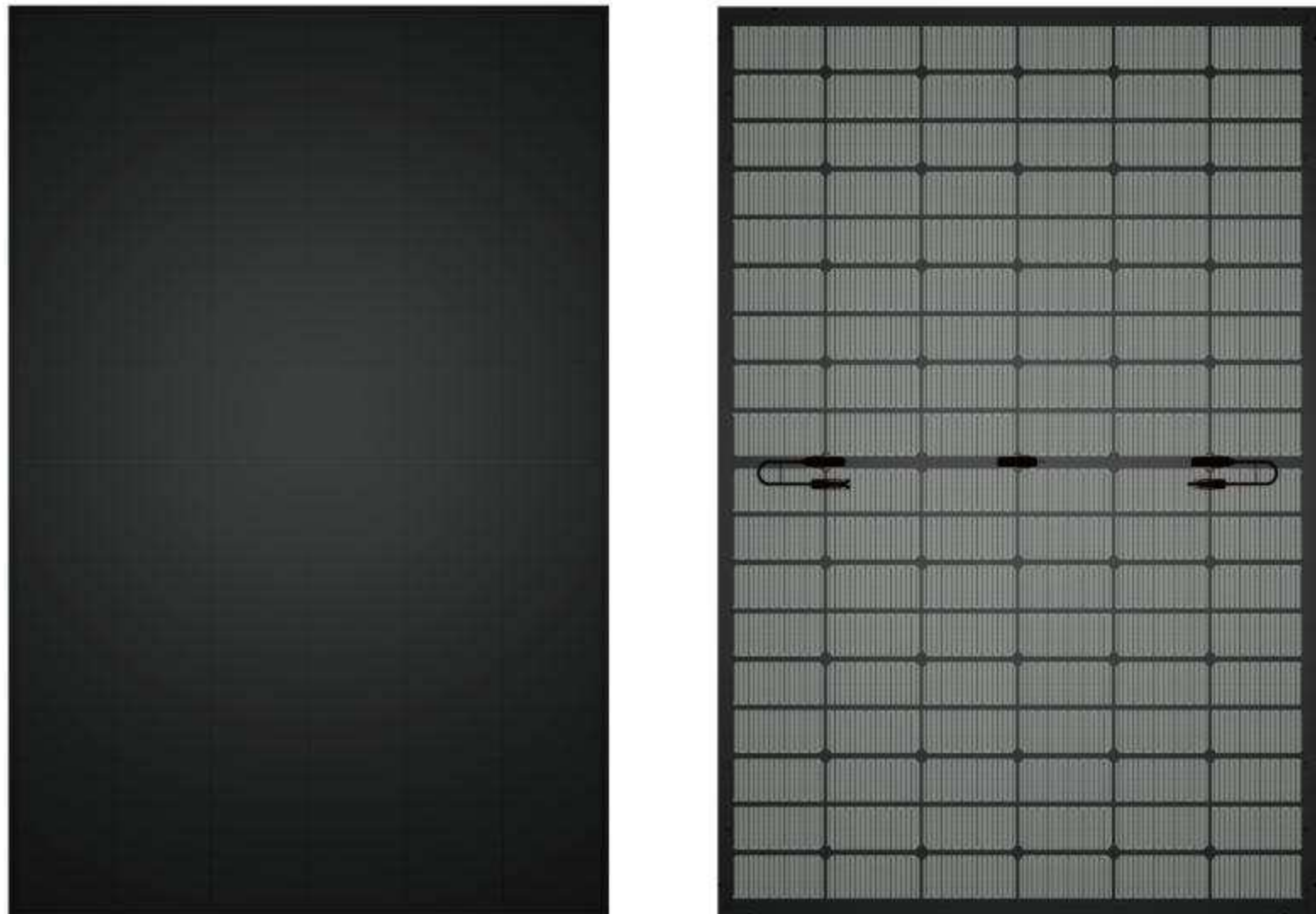
Additional Value

30-Year Power Warranty



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm², ±1200mm length can be customized
Glass	Double glass,2.0mm structure glass+1.6mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	22.5kg
Dimension	1722×1134×30mm
Packaging	36 pcs per pallet / 216pcs per 20'GP / 936pcs 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	LR5-54HTDB-420M		LR5-54HTDB-425M		LR5-54HTDB-430M		LR5-54HTDB-435M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	420.00	313.80	425.00	317.60	430.00	321.30	435.00	325.00
Open Circuit Voltage (Voc/V)	39.45	37.04	39.65	37.23	39.85	37.42	40.05	37.60
Short Circuit Current (Isc/A)	13.54	10.94	13.61	10.99	13.69	11.06	13.77	11.12
Voltage at Maximum Power (Vmp/V)	33.07	30.18	33.27	30.36	33.47	30.54	33.67	30.72
Current at Maximum Power (Imp/A)	12.71	10.40	12.78	10.46	12.85	10.53	12.92	10.58
Module Efficiency(%)	21.5		21.8		22.0		22.3	

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
Fire Rating	IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	6000Pa
Rear Side Maximum Static Loading	3600Pa
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



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Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20240418) DG
*The pictures are for reference only, please refer to the actual product