

Hi-MO 9

Preliminary

LR7-72HYD 625~660M

- Products for utility with optimal power generation through the entire lifecycle
- Performance improvement leads to a more than 6.5% power generation gain
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

12

12-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



24.4%

MAX MODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

<1%

FIRST YEAR
POWER DEGRADATION

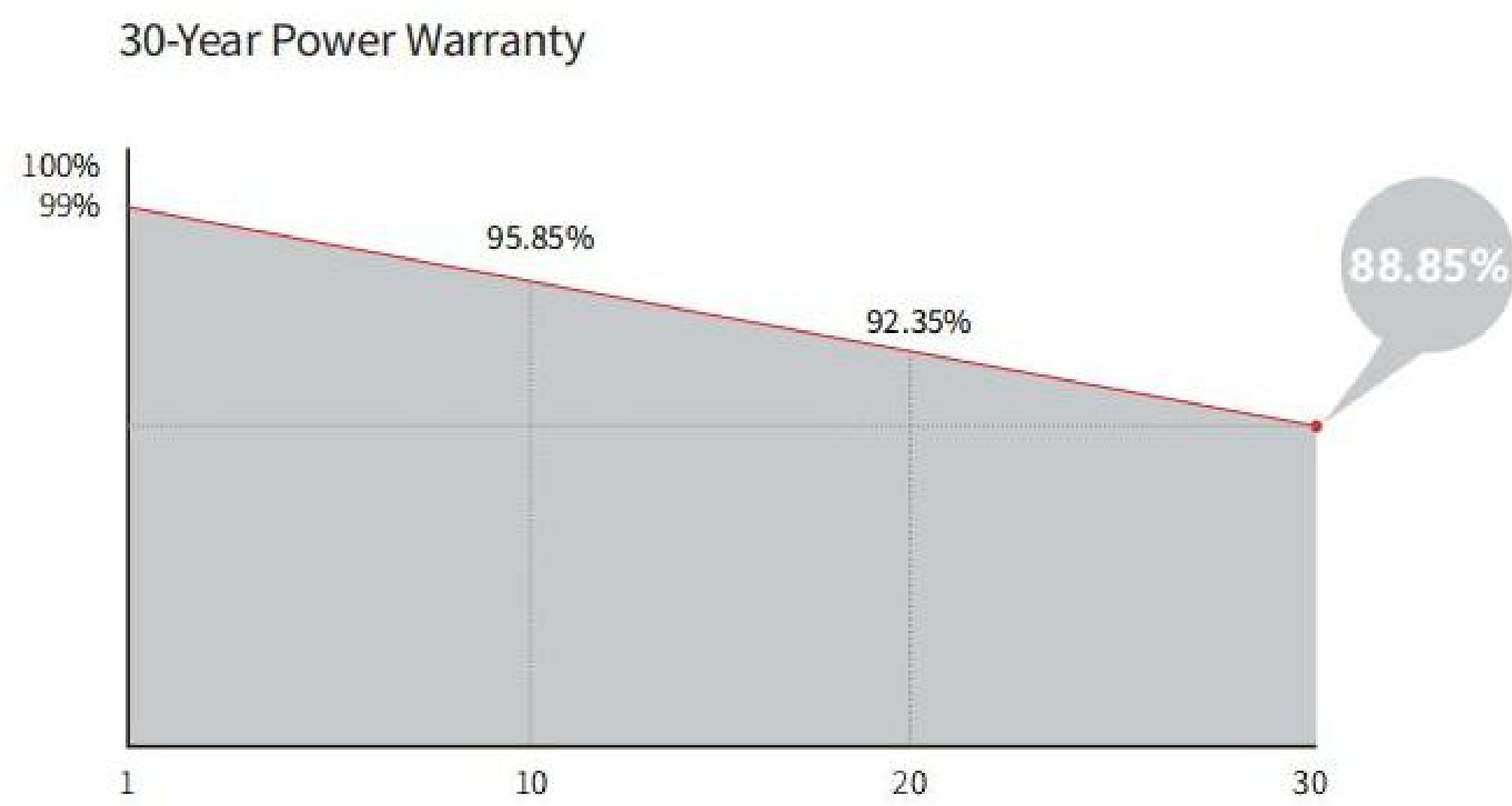
0.35%

YEAR 2-30
POWER DEGRADATION

BC-CELL

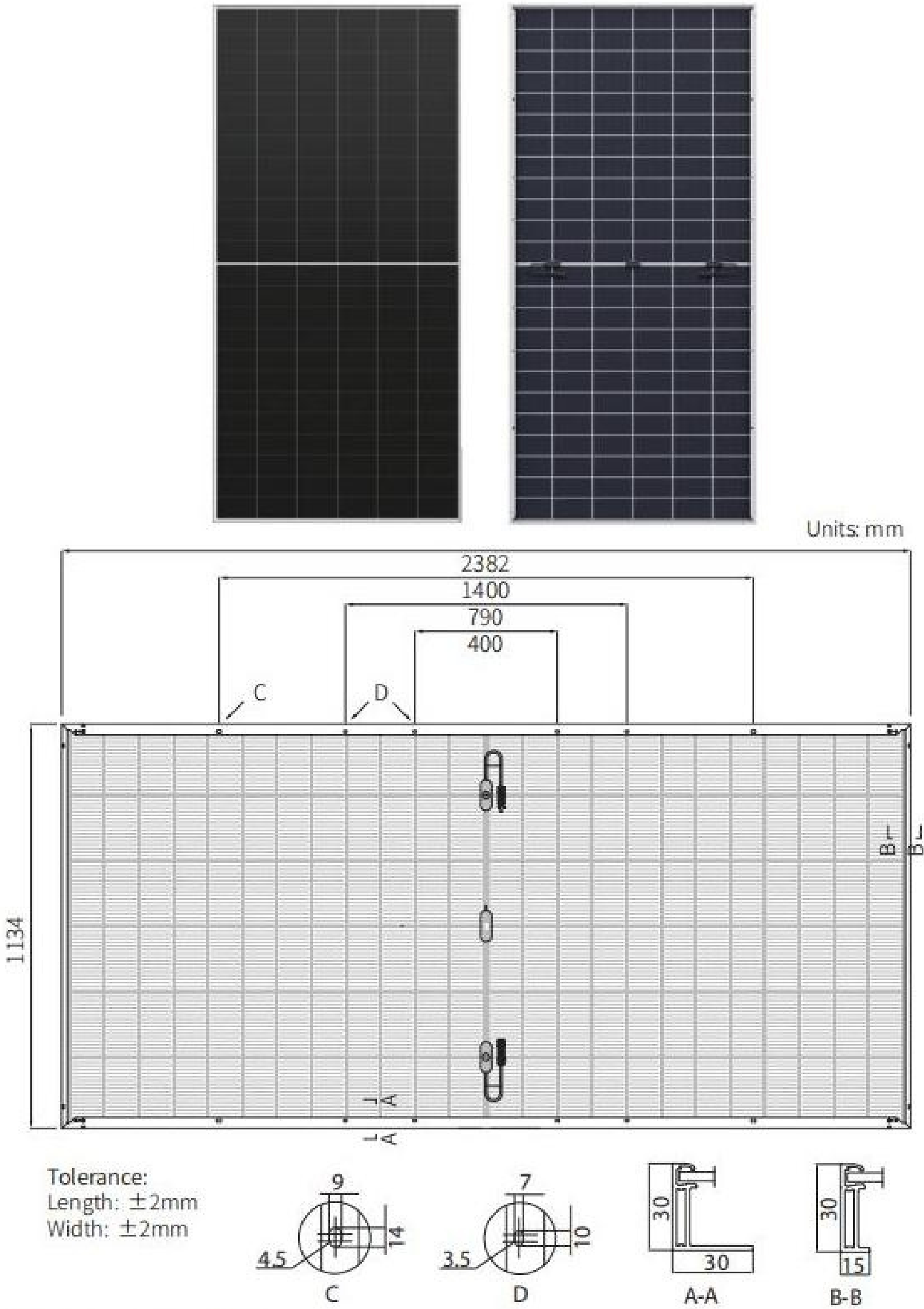
LOWER OPERATING
TEMPERATURE

Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
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: ±3%							
	LR7-72HYD-625M		LR7-72HYD-630M		LR7-72HYD-635M		LR7-72HYD-640M		LR7-72HYD-645M		LR7-72HYD-650M		LR7-72HYD-655M		LR7-72HYD-660M	
Module Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	625	475.8	630	479.6	635	483.4	640	487.2	645	491.0	650	494.8	655	498.6	660	502.4
Open Circuit Voltage (Voc/V)	53.30	50.65	53.40	50.75	53.50	50.84	53.60	50.94	53.70	51.03	53.80	51.13	53.90	51.22	54.00	51.32
Short Circuit Current (Isc/A)	14.85	11.93	14.93	12.00	15.01	12.06	15.09	12.12	15.17	12.18	15.25	12.25	15.33	12.31	15.41	12.38
Voltage at Maximum Power (Vmp/V)	44.16	41.97	44.26	42.06	44.36	42.16	44.46	42.25	44.56	42.35	44.65	42.43	44.75	42.53	44.85	42.62
Current at Maximum Power (Imp/A)	14.16	11.35	14.24	11.42	14.32	11.48	14.40	11.54	14.48	11.61	14.56	11.67	14.64	11.73	14.72	11.80
Module Efficiency(%)	23.1		23.3		23.5		23.7		23.9		24.1		24.2		24.4	

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	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±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	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C