

LR5-72HTH 580~600M

- Suitable for distributed projects
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

15

15-year Warranty for
Materials and Processing

25

25-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



23.2%
MAX MODULE
EFFICIENCY

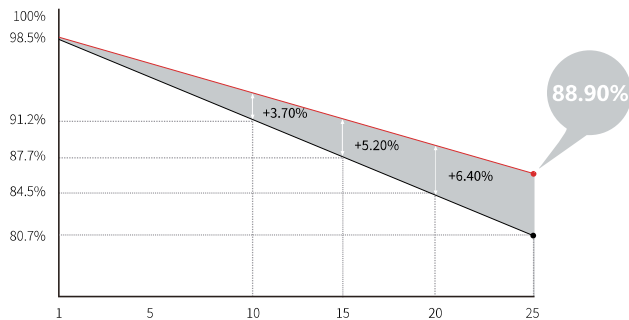
0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

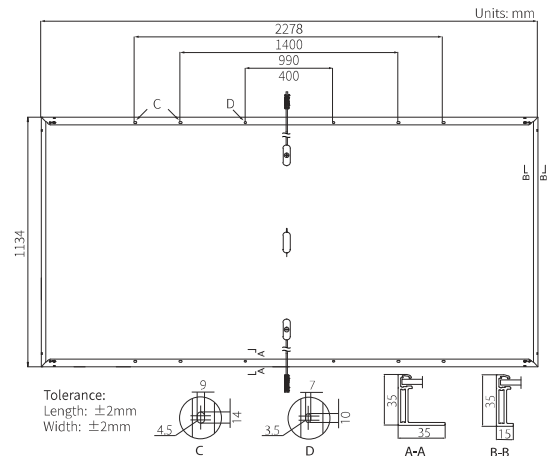
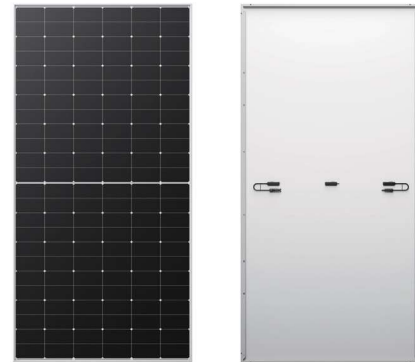
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 1400mm
Connector	MC4 EVO2
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27.5kg
Dimension	2278×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 620pcs 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	LR5-72HTH-580M		LR5-72HTH-585M		LR5-72HTH-590M		LR5-72HTH-595M		LR5-72HTH-600M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	580	433	585	437	590	441	595	445	600	448
Open Circuit Voltage (Voc/V)	52.21	49.02	52.36	49.16	52.51	49.30	52.66	49.44	52.81	49.58
Short Circuit Current (Isc/A)	14.20	11.47	14.27	11.52	14.33	11.57	14.40	11.63	14.46	11.68
Voltage at Maximum Power (Vmp/V)	44.06	40.20	44.21	40.34	44.36	40.48	44.51	40.62	44.66	40.75
Current at Maximum Power (Imp/A)	13.17	10.78	13.24	10.84	13.31	10.90	13.37	10.97	13.44	11.00
Module Efficiency(%)	22.5		22.6		22.8		23.0		23.2	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 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	-0.290%/°C