

Hi-MO X6 Scientist

LR5-54HTB 440~450M

- Suitable for Distribution Market
- Pure black for extreme elegance
- Highest efficiency with the best energy generation performance
- Better product warranty, better service



25-year Warranty for
Materials and Processing



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



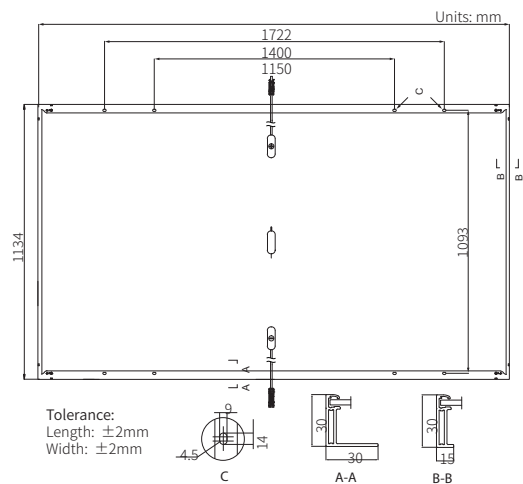
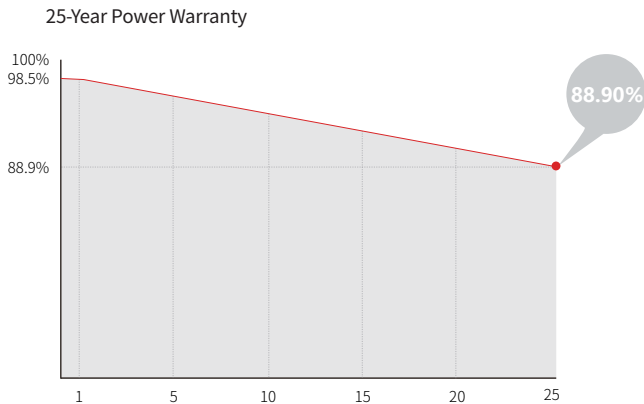
23.0%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , ± 1200 mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722×1134×30mm
Packaging	36pcs 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 P_{max}: $\pm 3\%$

Module Type	LR5-54HTB-440M		LR5-54HTB-445M		LR5-54HTB-450M	
	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	440	329	445	333	450	337
Open Circuit Voltage (V _{oc} /V)	39.83	37.40	40.03	37.58	40.23	37.77
Short Circuit Current (I _{sc} /A)	14.15	11.43	14.23	11.49	14.31	11.55
Voltage at Maximum Power (V _{mp} /V)	33.56	30.62	33.76	30.81	33.96	30.99
Current at Maximum Power (I _{mp} /A)	13.12	10.75	13.19	10.82	13.27	10.88
Module Efficiency(%)	22.5		22.8		23.0	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45 \pm 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 I _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.230%/°C
Temperature Coefficient of P _{max}	-0.290%/°C

Hi-MO 6

Scientist

LR5-54HTH 440~450M

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- Simple design embodies modern style
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25-year Warranty for
Materials and Processing



25-year Warranty for Extra
Linear Power Output

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IEC62941: Guideline for module design qualification and type approval

LONGI



23.0%
MAX MODULE
EFFICIENCY

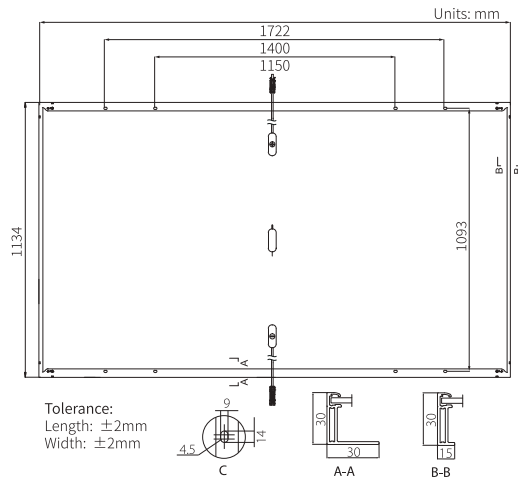
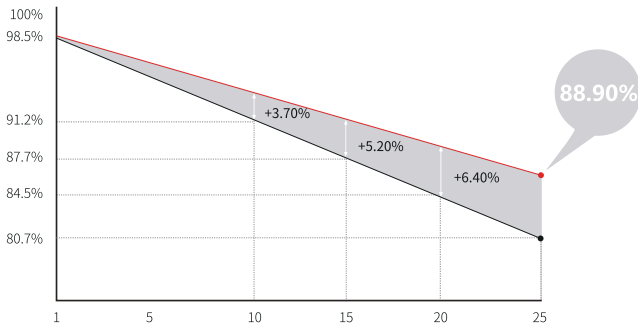
0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , ± 1200 mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722×1134×30mm
Packaging	36pcs 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: $\pm 3\%$

Module Type	LR5-54HTH-440M		LR5-54HTH-445M		LR5-54HTH-450M	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	440	329	445	332	450	336
Open Circuit Voltage (Voc/V)	39.53	37.11	39.73	37.30	39.93	37.49
Short Circuit Current (Isc/A)	14.30	11.55	14.37	11.61	14.45	11.67
Voltage at Maximum Power (Vmp/V)	33.24	30.33	33.44	30.51	33.64	30.70
Current at Maximum Power (Imp/A)	13.24	10.85	13.31	10.90	13.38	10.95
Module Efficiency(%)	22.5		22.8		23.0	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	$\pm 3\%$
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

Hi-MO **5m**

(G2)

LR5-66HPH 495~515M

- Adatto per la generazione distribuita
- La tecnologia avanzata del modulo offre un'elevata efficienza del modulo
 - Wafer Gallium-doped M10
 - Nastro segmentato integrato
 - Cella Half-cut a 9 busbar
- Eccellenti prestazioni di generazione di energia
- L'elevata qualità dei moduli garantisce affidabilità a lungo termine



12 anni di garanzia di prodotto



25 anni di garanzia di potenza con decadimento lineare

Sistema Completo e Certificazioni di Prodotto

IEC 61215, IEC61730, UL1703

ISO9001: 2015: Sistema di Gestione della Qualità ISO

ISO14001: 2015: Sistema di Gestione Ambientale ISO

ISO45001: 2018: Salute e Sicurezza sul Lavoro

IEC62941: Linee Guida per la Qualifica della Progettazione del Modulo e l'Omologazione

LONGI



21.7%

MASSIMA EFFICIENZA
DEL MODULO

0~3%

TOLLERANZA
DI POTENZA

<2%

DEGRADO DELLA
POTENZA AL PRIMO ANNO

0.55%

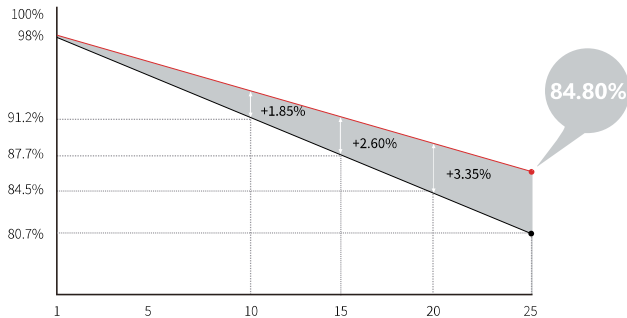
DEGRADO DELLA POTENZA
DAL 2° al 25° ANNO

HALF-CELL

Temperatura di esercizio più bassa

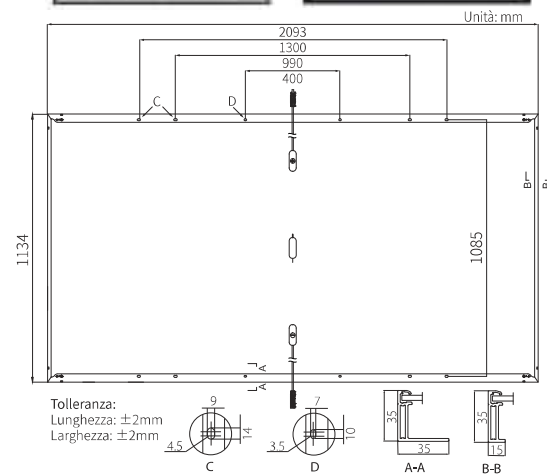
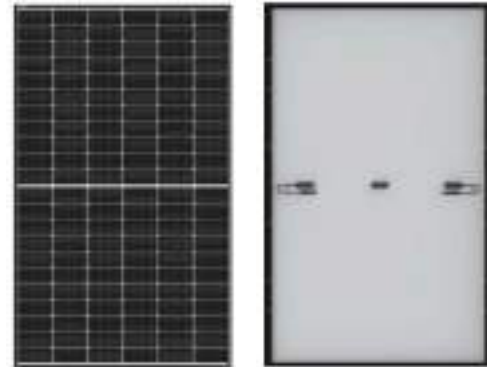
Valore aggiunto

Garanzia sulla potenza di 25 anni



Parametri Meccanici

Orientamento Celle	132 (6×22)
Scatola di Giunzione	IP68, 3 diodi
Cavo di uscita	4mm ² , 1600mm
Connettore	MC4 EVO2
Vetro	Vetro singolo, 3,2mm vetro temperato rivestito
Telaio	Telaio in lega di alluminio anodizzato
Peso	25.3kg
Dimensioni	2093×1134×35mm
Confezione	31 pz a pallet / 155 pz a 20' GP / 682 pz a 40' HC



Caratteristiche Elettriche

STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s

Tolleranza di prova per Pmax: ±3%

Modello	LR5-66HPH-495M		LR5-66HPH-500M		LR5-66HPH-505M		LR5-66HPH-510M		LR5-66HPH-515M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Condizioni di Prova	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potenza Massima (Pmax / W)	495	370.0	500	373.7	505	377.5	510	381.2	515	384.9
Tensione Circuito Aperto (Voc / V)	45.40	42.69	45.55	42.83	45.70	42.97	45.85	43.11	46.00	43.25
Corrente Corto Circuito (Isc / A)	13.82	11.17	13.90	11.24	13.97	11.30	14.05	11.36	14.13	11.42
Tensione alla Massima Potenza (Vmp / V)	38.23	35.51	38.38	35.65	38.53	35.79	38.68	35.93	38.83	36.07
Corrente alla Massima Potenza (Imp / A)	12.95	10.42	13.03	10.48	13.11	10.55	13.19	10.61	13.27	10.67
Efficienza del Modulo (%)	20.9		21.1		21.3		21.5		21.7	

Parametri Operativi

Temperatura di funzionamento	-40°C ~ +85°C
Tolleranza dell'Uscita di Potenza	0 ~ 3%
Tolleranza di Voc e Isc	±3%
Tensione Massima di Sistema	DC1500V (IEC/UL)
Valore Massimo di Serie Fusibili	25A
Temperatura operativa nominale della cella	45±2°C
Classe di Sicurezza	Class II
Classificazione Resistenza al fuoco	UL tipo 1 o 2 IEC Class C

Caricamento Meccanico

Carico Statico Massimo sul Lato Anteriore	5400Pa
Carico Statico Massimo sul Lato Posteriore	2400Pa
Test di resistenza alla grandine	Grandine di 25 mm alla velocità di 23 m/s

Valutazioni di Temperatura (STC)

Coefficiente di Temperatura di Isc	+0.050%/°C
Coefficiente di Temperatura di Voc	-0.265%/°C
Coefficiente di Temperatura di Pmax	-0.340%/°C

Hi-MO X6 Explorer

LR5-66HTH 520~540M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees 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

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ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

LONGI



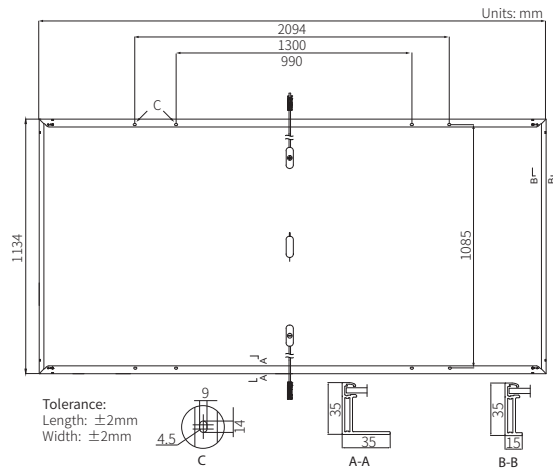
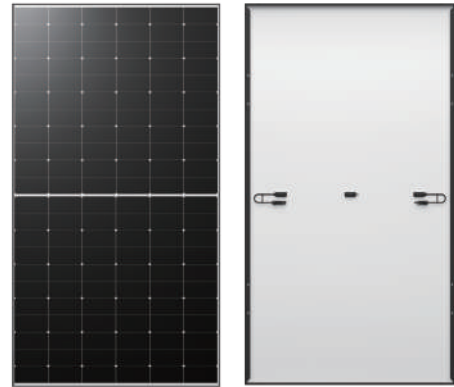
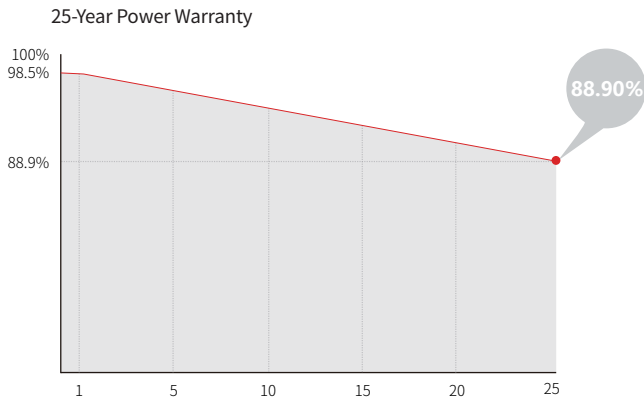
22.7%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68
Output Cable	4mm ² , +400, -200mm/ $\pm 1400\text{mm}$ length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.0kg
Dimension	2094×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 682pcs 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: $\pm 3\%$

Module Type	LR5-66HTH-520M		LR5-66HTH-525M		LR5-66HTH-530M		LR5-66HTH-535M		LR5-66HTH-540M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	520	388.6	525	392.3	530	396.0	535	399.8	540	403.5
Open Circuit Voltage (Voc/V)	48.27	45.32	48.42	45.46	48.57	45.60	48.72	45.75	48.87	45.89
Short Circuit Current (Isc/A)	13.84	11.18	13.93	11.25	14.00	11.31	14.07	11.37	14.15	11.43
Voltage at Maximum Power (Vmp/V)	39.91	36.42	40.06	36.55	40.22	36.70	40.38	36.85	40.53	36.99
Current at Maximum Power (Imp/A)	13.03	10.68	13.11	10.74	13.18	10.80	13.25	10.86	13.33	10.92
Module Efficiency(%)	21.9		22.1		22.3		22.5		22.7	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 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

Hi-MO X6 Explorer

LR5-72HTH

565~585M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



15-year Warranty for
Materials and Processing



25-year Warranty for Extra
Linear Power Output

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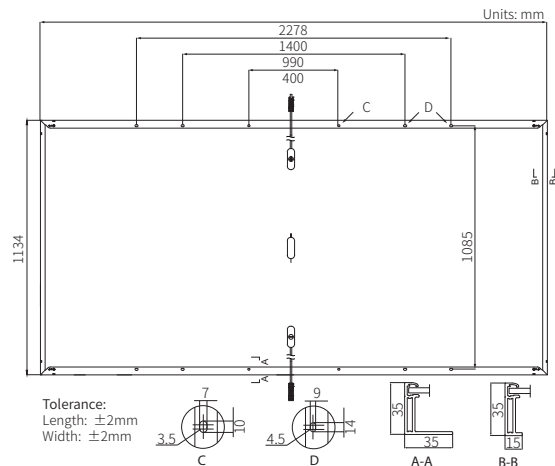
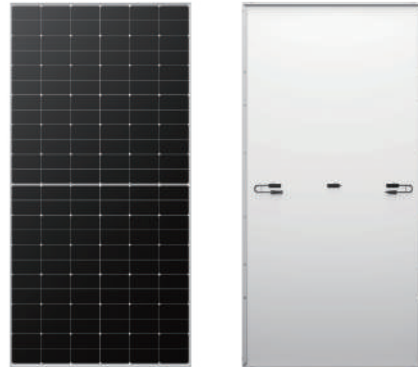
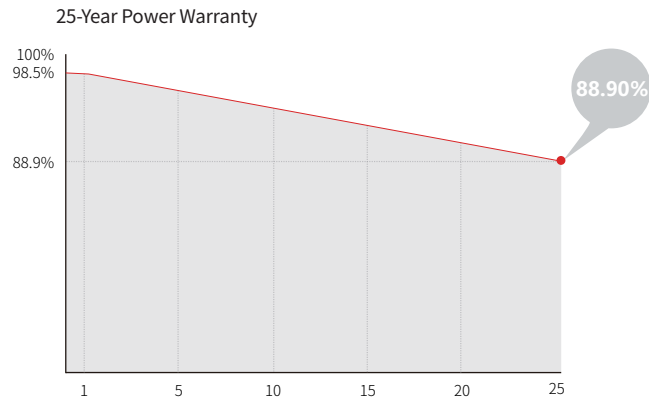
22.6%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm ² , +400, -200mm/ ± 1400 mm length can be customized
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: $\pm 3\%$

Module Type	LR5-72HTH-565M		LR5-72HTH-570M		LR5-72HTH-575M		LR5-72HTH-580M		LR5-72HTH-585M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	565	422	570	426	575	430	580	433	585	437
Open Circuit Voltage (Voc/V)	51.76	48.60	51.91	48.74	52.06	48.88	52.21	49.02	52.36	49.16
Short Circuit Current (Isc/A)	14.01	11.31	14.07	11.36	14.14	11.42	14.20	11.47	14.27	11.52
Voltage at Maximum Power (Vmp/V)	43.61	39.79	43.76	39.93	43.91	40.07	44.06	40.20	44.21	40.34
Current at Maximum Power (Imp/A)	12.96	10.61	13.03	10.68	13.10	10.73	13.17	10.78	13.24	10.84
Module Efficiency(%)	21.9		22.1		22.3		22.5		22.6	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	$\pm 3\%$
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

Hi-MO 6

Scientist

LR5-72HTH 585~600M

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- Simple design embodies modern style
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15

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23.2%
MAX MODULE
EFFICIENCY

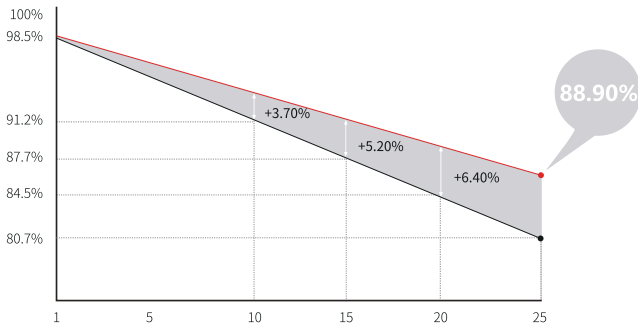
0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

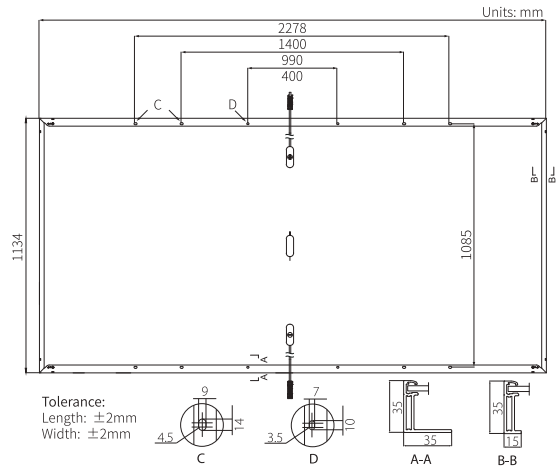
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
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-585M		LR5-72HTH-590M		LR5-72HTH-595M		LR5-72HTH-600M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	585	437	590	441	595	445	600	448
Open Circuit Voltage (Voc/V)	52.36	49.16	52.51	49.30	52.66	49.44	52.81	49.58
Short Circuit Current (Isc/A)	14.27	11.52	14.33	11.57	14.40	11.63	14.46	11.68
Voltage at Maximum Power (Vmp/V)	44.21	40.34	44.36	40.48	44.51	40.62	44.66	40.75
Current at Maximum Power (Imp/A)	13.24	10.84	13.31	10.90	13.37	10.97	13.44	11.00
Module Efficiency(%)	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