











## LR5-54HTH 420~440M

22.5%

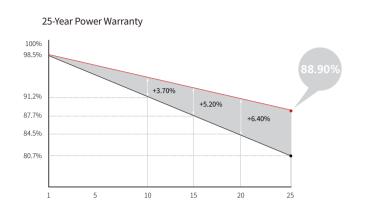
MAX MODULE

EFFICIENCY

0~3%
POWER
TOLERANCE

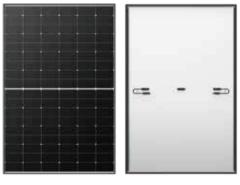
<1.5% FIRST YEAR POWER DEGRADATION 0.40% YEAR 2-25 POWER DEGRADATION

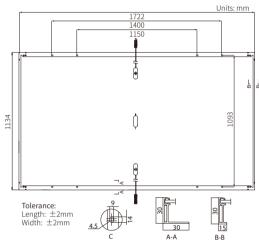
## **Additional Value**



## **Mechanical Parameters**

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Cell Orientation	108 (6×18)			
Junction Box	IP68			
Output Cable	$4$ mm $^2$ , $\pm 1200$ 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			





<b>Electrical Characteristics</b>	STC:AM1.	5 1000W/r	n² 25°C	NOCT : AN	И1.5 800W/	m² 20°C 1	m/s Test	uncertainty for Pn	nax: ±3%	
Module Type	LR5-54H	ITH-420M	LR5-54H	1TH-425M	LR5-54H	ITH-430M	LR5-54H	ITH-435M	LR5-54H	ITH-440M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	420	314	425	318	430	321	435	325	440	329
Open Circuit Voltage (Voc/V)	38.73	36.36	38.93	36.55	39.13	36.74	39.33	36.93	39.53	37.11
Short Circuit Current (Isc/A)	14.00	11.31	14.07	11.36	14.15	11.43	14.22	11.49	14.30	11.55
Voltage at Maximum Power (Vmp/V)	32.44	29.60	32.64	29.78	32.84	29.97	33.04	30.15	33.24	30.33
Current at Maximum Power (Imp/A)	12.98	10.60	13.03	10.67	13.10	10.72	13.17	10.78	13.24	10.85
Module Efficiency(%)	2	1.5	2	1.8	22	2.0	2	2.3	22	2.5

**Operating Parameters** 

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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



Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20230518V18) DG