

# Hi-MO 7

## LR5-78HGD 615~635M

- High-performance PV modules for utility power plants
- Advanced HPDC cell technology delivers superior module efficiency and power
- High bifaciality and excellent power temperature coefficient achieves high energy yield
- LONGi lifecycle quality ensures long-term performance

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



**22.7%**  
MAX MODULE  
EFFICIENCY

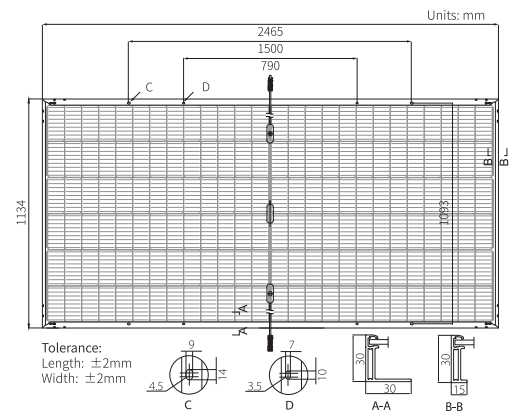
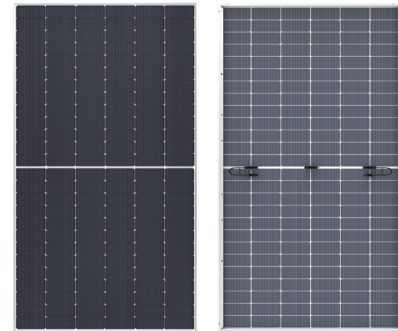
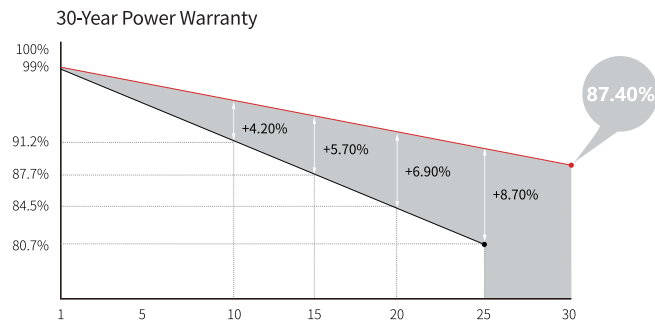
**0~3%**  
POWER  
TOLERANCE

**<1%**  
FIRST YEAR  
POWER DEGRADATION

**0.4%**  
YEAR 2-30  
POWER DEGRADATION

**HALF-CELL**  
Lower operating temperature

## Additional Value



## Mechanical Parameters

Cell Orientation	156 (6×26)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	35.1kg
Dimension	2465×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 576pcs per 40' HC

## Electrical Characteristics

STC : AM1.5 1000W/m<sup>2</sup> 25°C      NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s      Test uncertainty for Pmax: ±3%

Module Type	LR5-78HGD-615M		LR5-78HGD-620M		LR5-78HGD-625M		LR5-78HGD-630M		LR5-78HGD-635M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	615	468.2	620	472.0	625	475.8	630	479.6	635	483.4
Open Circuit Voltage (Voc/V)	56.75	53.93	56.91	54.08	57.07	54.24	57.23	54.39	57.39	54.54
Short Circuit Current (Isc/A)	13.73	11.03	13.79	11.08	13.85	11.13	13.91	11.18	13.97	11.22
Voltage at Maximum Power (Vmp/V)	47.50	45.15	47.66	45.30	47.82	45.45	47.99	45.61	48.15	45.76
Current at Maximum Power (Imp/A)	12.95	10.37	13.01	10.42	13.07	10.47	13.13	10.52	13.19	10.57
Module Efficiency(%)	22.0		22.2		22.4		22.5		22.7	

## Electrical characteristics with different rear side power gain (reference to 625W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
656	57.07	14.55	47.82	13.72	5%
688	57.07	15.24	47.82	14.38	10%
719	57.17	15.93	47.92	15.03	15%
750	57.17	16.62	47.92	15.68	20%
781	57.17	17.32	47.92	16.34	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	80±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	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C