

# Hi-MO 7

## LR5-72HGD 560~590M

- 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**



**22.8%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

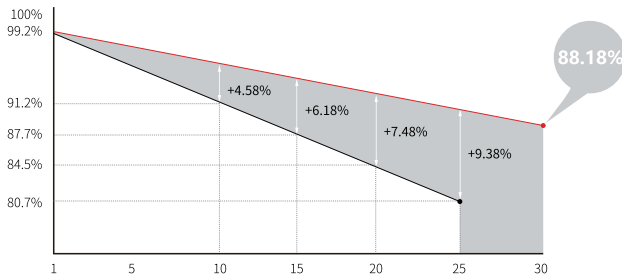
**<0.8%**  
FIRST YEAR  
POWER DEGRADATION

**0.38%**  
YEAR 2-30  
POWER DEGRADATION

**HALF-CELL**  
Lower operating temperature

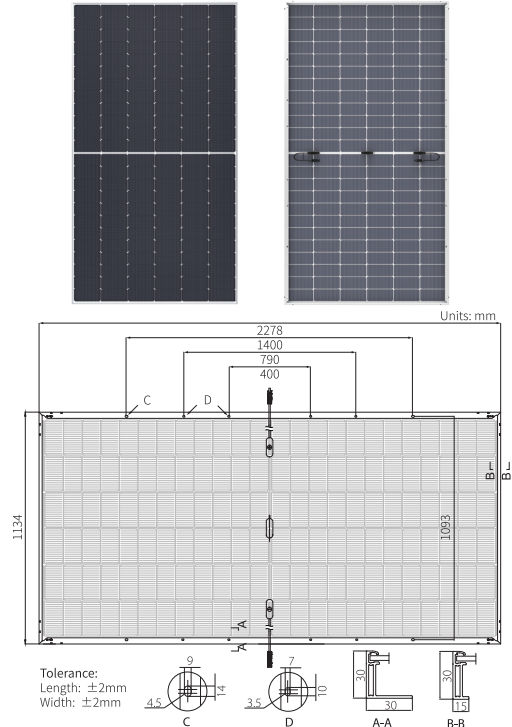
## Additional Value

### 30-Year Power Warranty



## Mechanical Parameters

Cell Orientation	144 (6×24)
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	31.8kg
Dimension	2278×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 720pcs per 40' HC



## Electrical Characteristics

Module Type	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%					
	LR5-72HGD-560M	LR5-72HGD-565M	LR5-72HGD-570M	LR5-72HGD-575M	LR5-72HGD-580M	LR5-72HGD-585M	LR5-72HGD-590M	STC	NOCT	STC	NOCT	STC	NOCT	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	560	426.3	565	430.1	570	433.9	575	437.7	580	441.5	585	445.3	590	449.1
Open Circuit Voltage (Voc/V)	50.99	48.46	51.09	48.55	51.19	48.65	51.30	48.75	51.41	48.86	51.52	48.96	51.63	49.07
Short Circuit Current (Isc/A)	13.89	11.16	13.97	11.22	14.05	11.29	14.14	11.35	14.22	11.42	14.30	11.48	14.38	11.55
Voltage at Maximum Power (Vmp/V)	42.82	40.69	42.91	40.78	43.00	40.87	43.11	40.97	43.22	41.07	43.33	41.18	43.44	41.28
Current at Maximum Power (Imp/A)	13.08	10.48	13.17	10.55	13.26	10.62	13.34	10.68	13.42	10.75	13.51	10.82	13.59	10.89
Module Efficiency(%)	21.7		21.9		22.1		22.3		22.5		22.6		22.8	

## Electrical characteristics with different rear side power gain (reference to 575W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
604	51.30	14.84	43.11	14.00	5%
633	51.30	15.55	43.11	14.67	10%
661	51.40	16.26	43.21	15.34	15%
690	51.40	16.96	43.21	16.01	20%
719	51.40	17.67	43.21	16.67	25%

## 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	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	80±10%
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