

Hi-MO 7

LR8-66HGD 595~625M

- 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



23.1%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

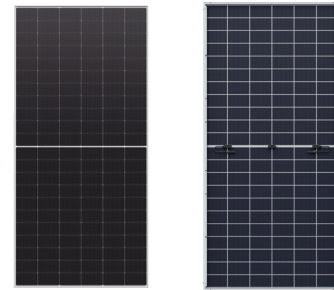
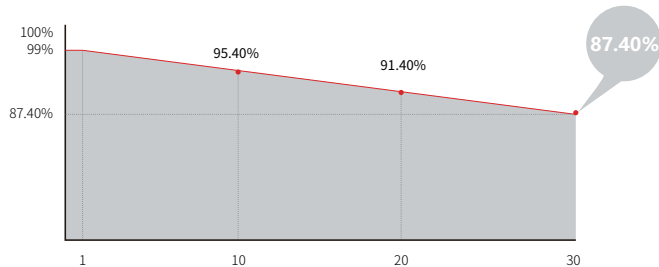
<1%
FIRST YEAR
POWER DEGRADATION

0.4%
YEAR 2-30
POWER DEGRADATION

HALF-CELL
Lower operating temperature

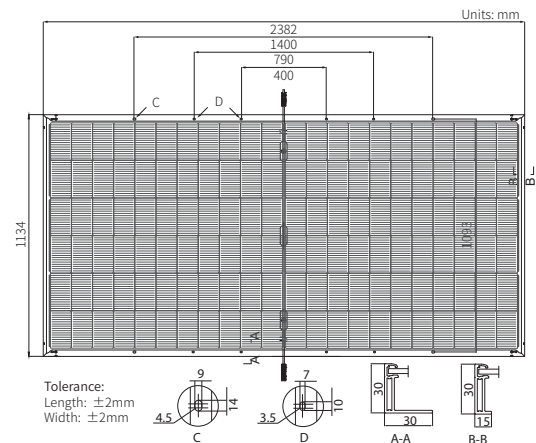
Additional Value

30-Year Power Warranty



Mechanical Parameters

| | |
|------------------|---|
| Cell Orientation | 132 (6×22) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , +400, -200mm/±1400mm length can be customized |
| Glass | Dual glass, 2.0+2.0mm heat strengthened glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 32.2kg |
| Dimension | 2382×1134×30mm |
| Packaging | 36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC |



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1.0 m/s Test uncertainty for Pmax: ±3%

| Module Type | LR8-66HGD-595M | | LR8-66HGD-600M | | LR8-66HGD-605M | | LR8-66HGD-610M | | LR8-66HGD-615M | | LR8-66HGD-620M | | LR8-66HGD-625M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 595 | 452.9 | 600 | 456.7 | 605 | 460.5 | 610 | 464.3 | 615 | 468.1 | 620 | 471.9 | 625 | 475.8 |
| Open Circuit Voltage (Voc/V) | 47.78 | 45.41 | 47.98 | 45.60 | 48.18 | 45.79 | 48.38 | 45.98 | 48.58 | 46.17 | 48.78 | 46.36 | 48.98 | 46.55 |
| Short Circuit Current (Isc/A) | 15.80 | 12.69 | 15.85 | 12.73 | 15.90 | 12.77 | 15.95 | 12.81 | 16.00 | 12.85 | 16.05 | 12.89 | 16.10 | 12.93 |
| Voltage at Maximum Power (Vmp/V) | 39.91 | 37.93 | 40.11 | 38.12 | 40.31 | 38.31 | 40.51 | 38.50 | 40.71 | 38.69 | 40.91 | 38.88 | 41.11 | 39.07 |
| Current at Maximum Power (Imp/A) | 14.91 | 11.94 | 14.96 | 11.98 | 15.01 | 12.02 | 15.06 | 12.06 | 15.11 | 12.10 | 15.16 | 12.14 | 15.21 | 12.18 |
| Module Efficiency(%) | 22.0 | | 22.2 | | 22.4 | | 22.6 | | 22.8 | | 23.0 | | 23.1 | |

Electrical characteristics with different rear side power gain (reference to 610W front)

| Pmax/W | Voc/V | Isc/A | Vmp/V | Imp/A | Pmax gain |
|--------|-------|-------|-------|-------|-----------|
| 641 | 48.38 | 16.75 | 40.51 | 15.81 | 5% |
| 671 | 48.38 | 17.55 | 40.51 | 16.57 | 10% |
| 703 | 48.48 | 18.34 | 40.61 | 17.32 | 15% |
| 734 | 48.48 | 19.14 | 40.61 | 18.07 | 20% |
| 764 | 48.48 | 19.94 | 40.61 | 18.82 | 25% |

Operating Parameters

| | |
|------------------------------------|---------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC/UL) |
| Maximum Series Fuse Rating | 35A |
| 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 |