

Hi-MO **X10** Guardian Anti-Dust

LR8-66HVDF 640~670M

- Advanced: N-Type TaiRay Wafer + HPBC2.0 + 0BB
- Aesthetic: No Frontal Gridlines, Scenario Integration
- Safe: Less Micro-Crack, Prevent Localized Overheating, Anti-Shading
- Anti-Dust Design: Patented Frame, Reduce Dust Accumulation

15

15-year Warranty for
Materials and Processing

30

30-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 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



24.80%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

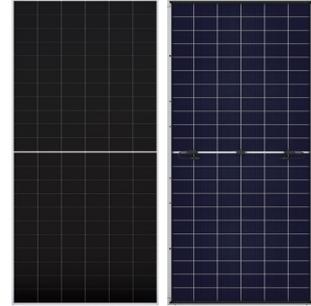
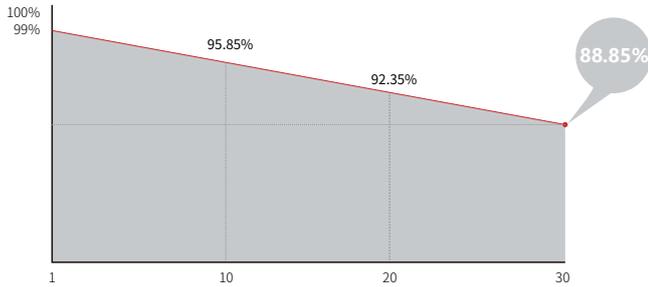
1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

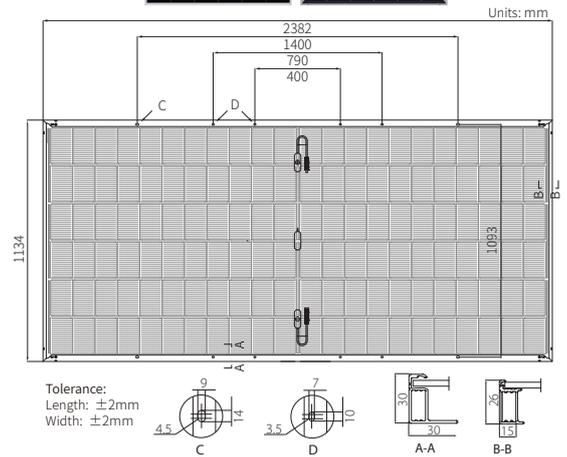
Additional Value

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 semi-tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 32.5kg |
| Dimension | 2382×1134×30mm |
| Packaging | 35pcs per pallet / 140pcs per 20' GP / 700pcs per 40' HC |



Electrical Characteristics STC : AM1.5 1000W/m² 25°C Test uncertainty for Pmax: ±3%

| Module Type | LR8-66HVDF-640M | LR8-66HVDF-645M | LR8-66HVDF-650M | LR8-66HVDF-655M | LR8-66HVDF-660M | LR8-66HVDF-665M | LR8-66HVDF-670M |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Testing Condition | STC |
| Maximum Power (Pmax/W) | 640 | 645 | 650 | 655 | 660 | 665 | 670 |
| Open Circuit Voltage (Voc/V) | 49.52 | 49.62 | 49.72 | 49.82 | 49.92 | 50.02 | 50.12 |
| Short Circuit Current (Isc/A) | 16.38 | 16.46 | 16.54 | 16.62 | 16.70 | 16.78 | 16.86 |
| Voltage at Maximum Power (Vmp/V) | 40.78 | 40.88 | 40.98 | 41.08 | 41.18 | 41.28 | 41.38 |
| Current at Maximum Power (Imp/A) | 15.69 | 15.78 | 15.86 | 15.94 | 16.03 | 16.11 | 16.19 |
| Module Efficiency(%) | 23.69 | 23.88 | 24.06 | 24.25 | 24.43 | 24.62 | 24.80 |

Electrical characteristics with different rear side power gain (Taking 645W as the baseline)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---------|-------|--------|-------|--------|-----------|
| 677 | 49.62 | 17.28 | 40.88 | 16.57 | 5% |
| 710 | 49.62 | 18.11 | 40.88 | 17.36 | 10% |
| 744 | 49.72 | 18.93 | 40.98 | 18.15 | 15% |
| 776 | 49.72 | 19.75 | 40.98 | 18.94 | 20% |
| 808 | 49.72 | 20.58 | 40.98 | 19.73 | 25% |

Operating Parameters

| | |
|------------------------------------|---------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC) |
| Maximum Series Fuse Rating | 35A |
| Nominal Operating Cell Temperature | 45±2°C |
| Protection Class | Class II |
| Bifaciality | 75±5% |
| Fire Rating | 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 | -0.200%/°C |
| Temperature Coefficient of Pmax | -0.260%/°C |