

# Hi-MO X10

Anti-Glare

## LR8-66HVD

# 640~665M

THE **smarter**  
AWARD **E**

- Designed for applications where glare behavior must be managed under standard conditions
- Use high-transparency and low-reflection glass to enhance the anti-glare effect
- Peak efficiency with top power generation performance
- TaiRay wafer & BC technology enhances high product reliability

HPBC  
2.0



N-type

30

30 year Warranty for  
Extra Linear Power Output

15

15 year Warranty for  
Materials and Processing

### Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing



**24.62 %**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

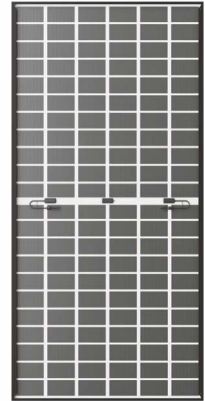
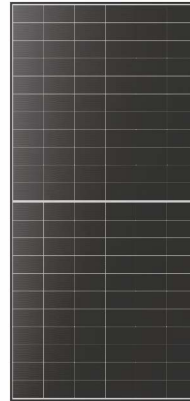
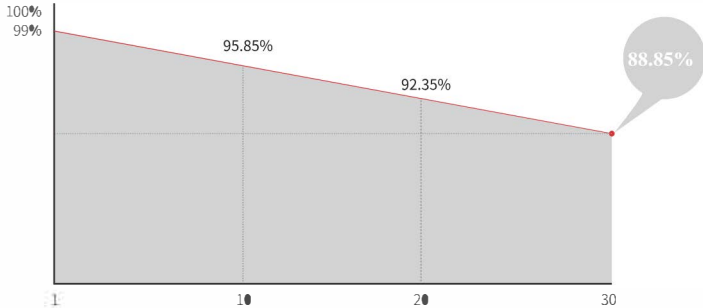
**0.1%**  
FIRST YEAR  
POWER DEGRADATION

**0.35%**  
YEAR 2-30  
POWER DEGRADATION

**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

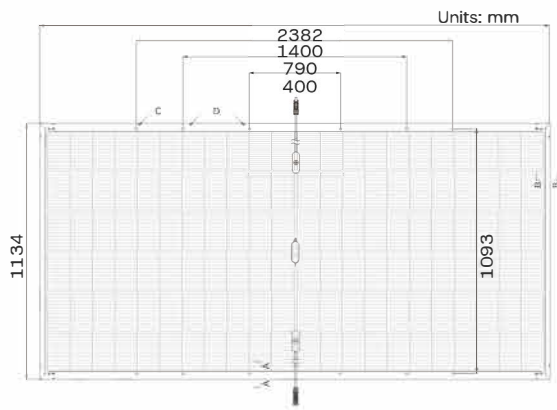
## Additional Value

### 30 Year Power Warranty

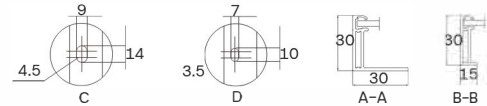


## Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±12.00mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	32.5
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC



**Tolerance:**  
Length: ±2mm  
Width: ±2mm



## 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 P<sub>max</sub> ±3%

Module Type	LR8-66HVD-640M	LR8-66HVD-645M	LR8-66HVD-650M	LR8-66HVD-655M	LR8-66HVD-660M	LR8-66HVD-665M
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (P <sub>max</sub> /W)	640	645	650	655	660	665
Open Circuit Voltage (V <sub>oc</sub> /V)	49.52	49.62	49.72	49.82	49.92	50.02
Short Circuit Current (I <sub>sc</sub> /A)	16.38	16.46	16.54	16.62	16.70	16.78
Voltage at Maximum Power (V <sub>mp</sub> /V)	40.78	40.88	40.98	41.08	41.18	41.28
Current at Maximum Power (I <sub>mp</sub> /A)	15.69	15.78	15.86	15.94	16.03	16.11
Module Efficiency(%)	23.69	23.88	24.06	24.25	24.43	24.62

## Electrical characteristics with different rear side power gain

P <sub>max</sub> /W	V <sub>oc</sub> /V	I <sub>sc</sub> /A	V <sub>mp</sub> /V	I <sub>mp</sub> /A	P <sub>max</sub> 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
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 I <sub>sc</sub>	+0.050%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.200%/°C
Temperature Coefficient of P <sub>max</sub>	-0.260%/°C