

Hi-MO X10

Transparent-Design

LONGI
SOLAR

LR7-54HVD

475~500M

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

- A sleek design for a modern style
- Record efficiency for unmatched energy production
- Anti-shading protection and hotspot prevention
- Revolutionary technologies: TaiRay Wafer, HPBC 2.0, and OBB (zero busbar)

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

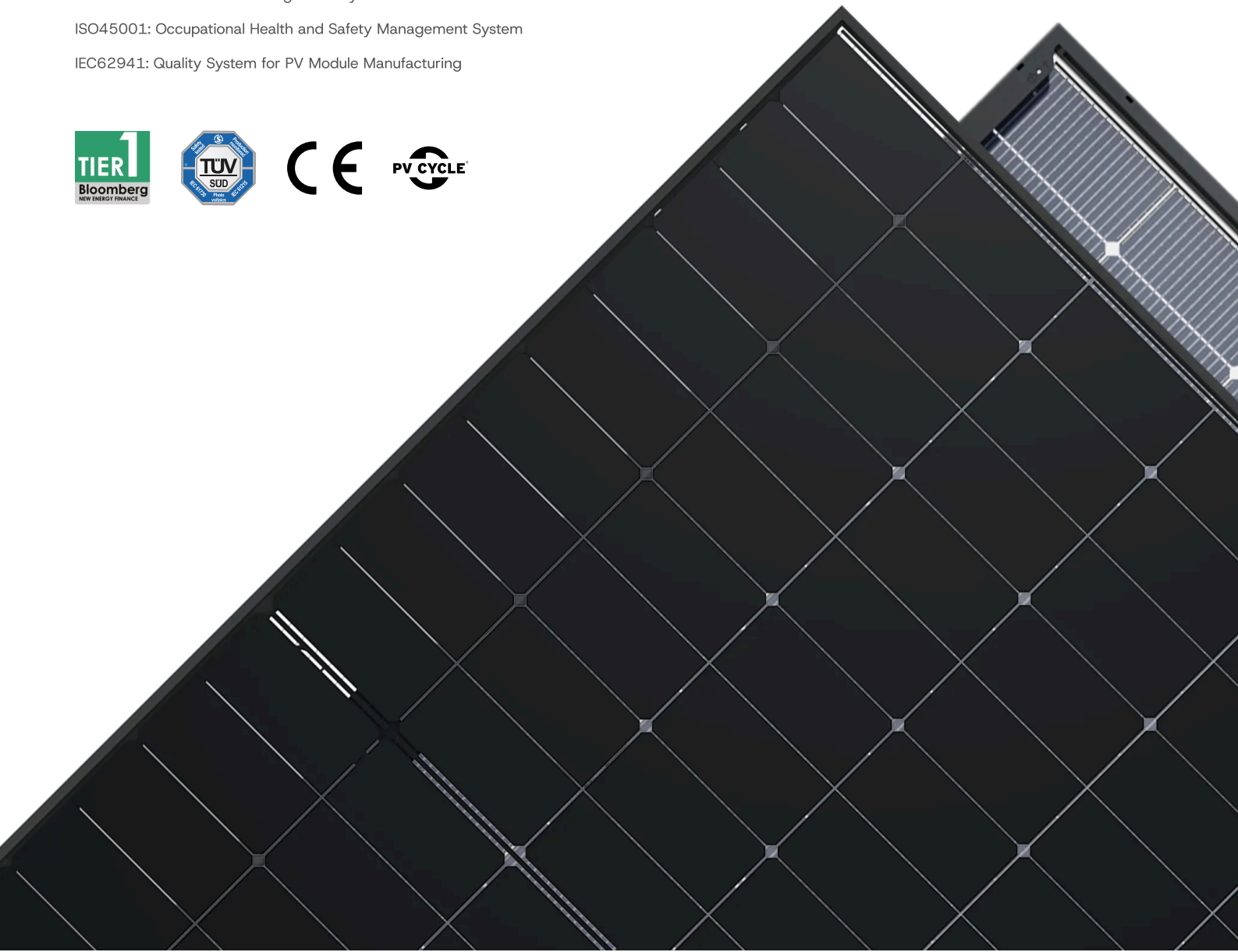
IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing



24.5%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

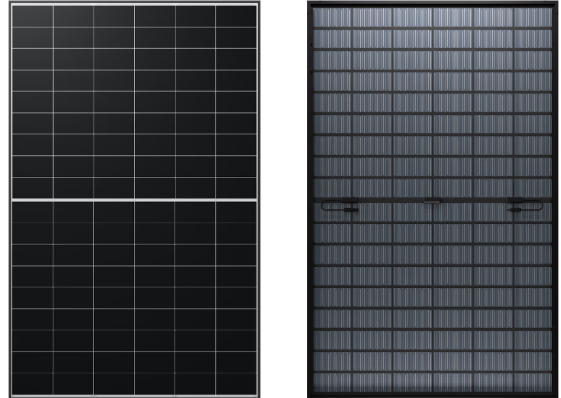
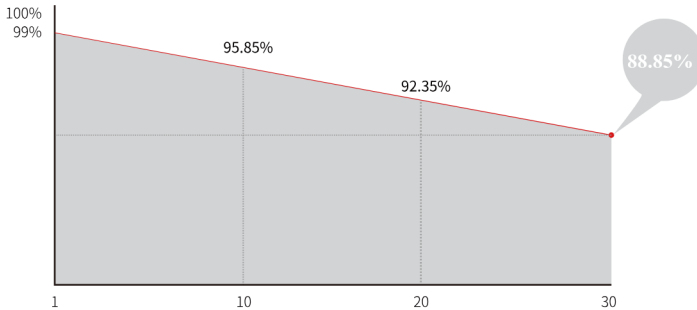
1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

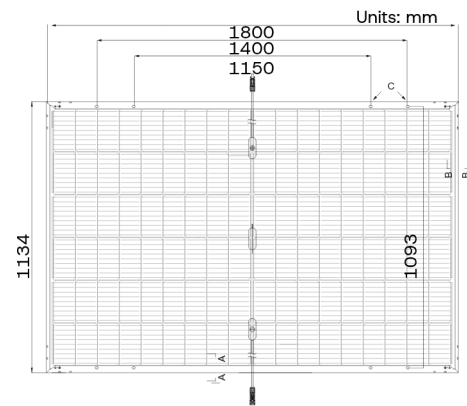
Additional Value

30 Year Power Warranty

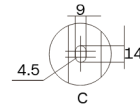


Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±12.00mm length can be customized
Glass	Dual glass, 2.0mm coated tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs per 40' HC



Tolerance:
Length: ±2mm
Width: ±2mm



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for P_{max} ±3%

Module Type	LR7-54HVD-475M		LR7-54HVD-480M		LR7-54HVD-485M		LR7-54HVD-490M		LR7-54HVD-495M		LR7-54HVD-500M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	475	361	480	365	485	369	490	373	495	377	500	381
Open Circuit Voltage (V _{oc} /V)	40.18	38.39	40.29	38.50	40.40	38.61	40.52	38.73	40.64	38.84	40.75	38.95
Short Circuit Current (I _{sc} /A)	14.88	11.93	14.98	12.02	15.08	12.10	15.18	12.19	15.28	12.27	15.37	12.35
Voltage at Maximum Power (V _{mp} /V)	33.18	31.71	33.29	31.82	33.40	31.93	33.51	32.05	33.62	32.16	33.73	32.27
Current at Maximum Power (I _{mp} /A)	14.06	11.39	14.42	11.48	14.53	11.56	14.63	11.65	14.73	11.73	14.83	11.81
Module Efficiency(%)	23.3		23.5		23.8		24.0		24.3		24.5	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
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 _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.200%/°C
Temperature Coefficient of P _{max}	-0.260%/°C