

Hi-MO X10

LONGI
SOLAR

LR7-60HVH

THE **smarter**
AWARD 

535~560M

- Record efficiency for unmatched energy production
- Anti-shading function ensuring optimal performance and safety against hotspots
- Revolutionary technologies: TaiRay Wafer, HPBC 2.0 and OBB (zero busbar)
- Premium warranty and after-sales service

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

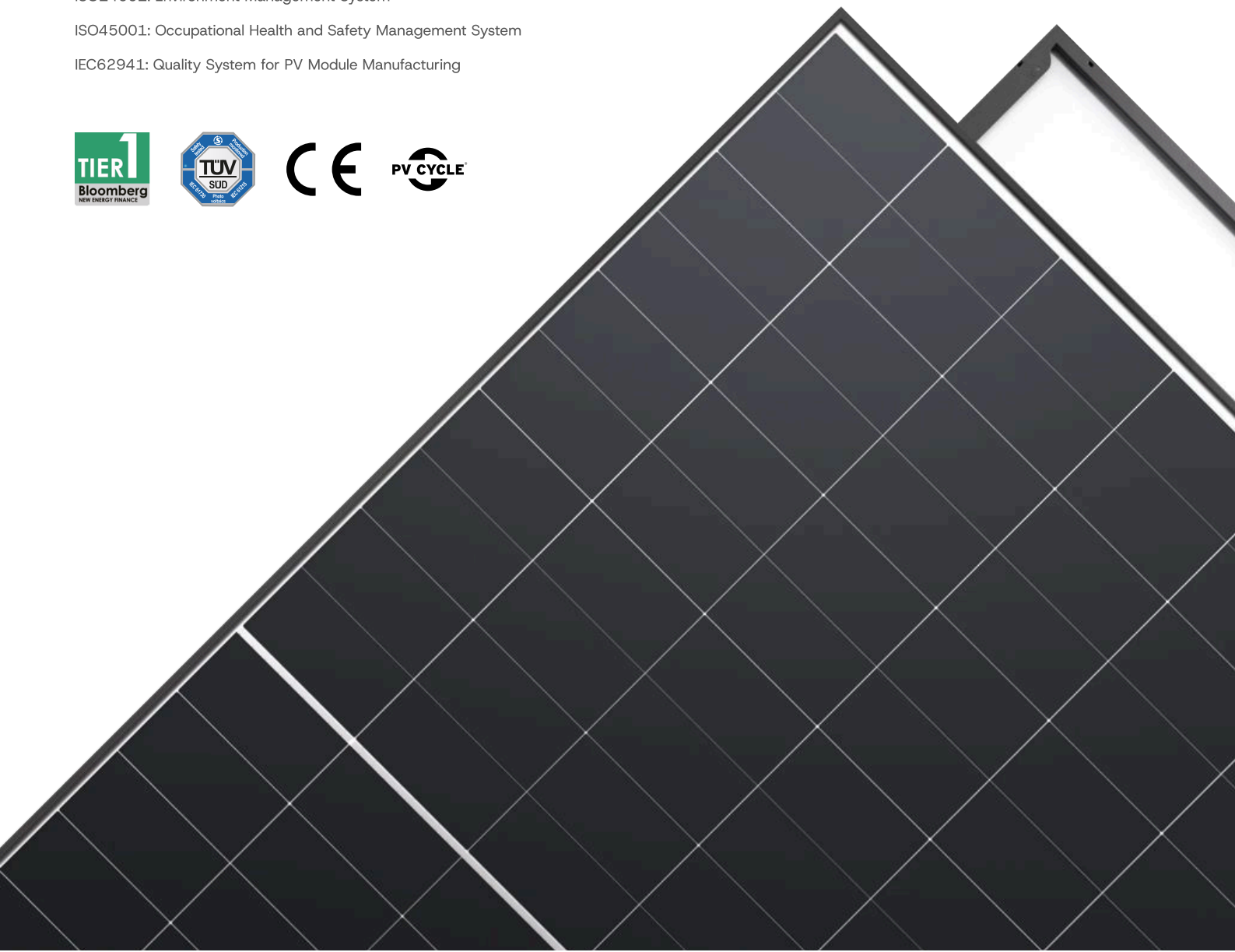
IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing



24.8 %
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

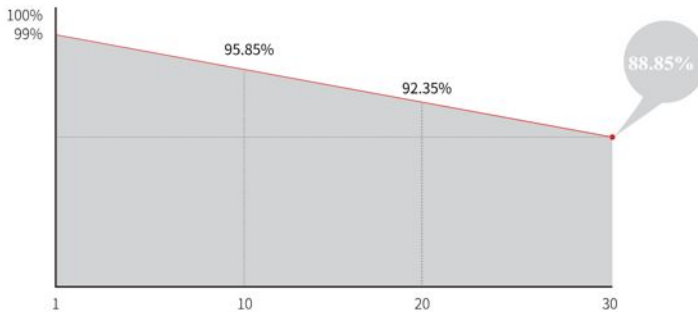
1%
FIRST YEAR
POWER DEGRADATION

0.35 %
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

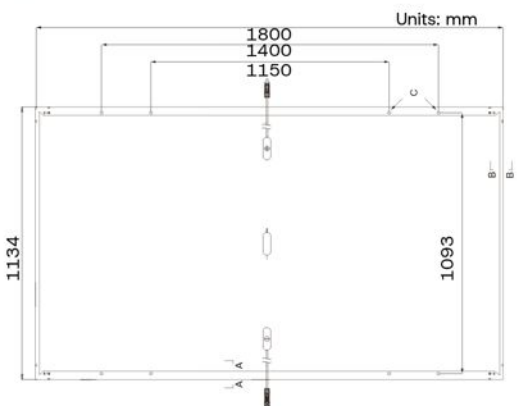
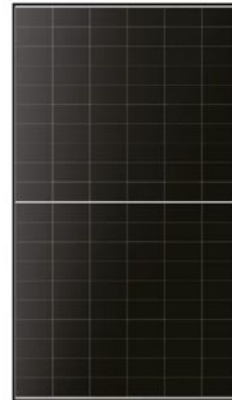
Additional Value

30-Year Power Warranty

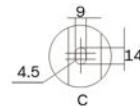


Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±12.00mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black anodized aluminum alloy frame
Weight	24.8
Dimension	1990×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 792pcs 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	LR7-60HVH-535M		LR7-60HVH-540M		LR7-60HVH-545M		LR7-60HVH-550M		LR7-60HVH-555M		LR7-60HVH-560M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	535	407	540	411	545	415	550	419	555	422	560	426
Open Circuit Voltage (V _{oc} /V)	44.78	42.57	44.88	42.66	44.98	42.76	45.08	42.85	45.18	42.95	45.28	43.04
Short Circuit Current (I _{sc} /A)	15.15	12.17	15.25	12.25	15.35	12.33	15.45	12.41	15.55	12.49	15.65	12.57
Voltage at Maximum Power (V _{mp} /V)	37.01	35.16	37.11	35.26	37.21	35.35	37.31	35.45	37.41	35.54	37.51	35.64
Current at Maximum Power (I _{mp} /A)	14.46	11.58	14.55	11.66	14.65	11.73	14.74	11.81	14.84	11.89	14.93	11.96
Module Efficiency(%)	23.7		23.9		24.2		24.4		24.6		24.8	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
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}	-0.260%/°C
Temperature Coefficient of P _{max}	-0.200%/°C