Hi-MO X10 Scientist

LR7-60HVD

530~550M

- More flexible installation methods, suitable for short frame clamps mounting with high mechanical loading
- High efficiency with better energy generation performance
- N-type TaiRay wafer & HPBC 2.0 innovative technology enhances high product reliability

25 25-year Warranty for Materials and Processing

30 30-year Warranty for Extra Front Side 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 app roval

LONGi

TUV SUD

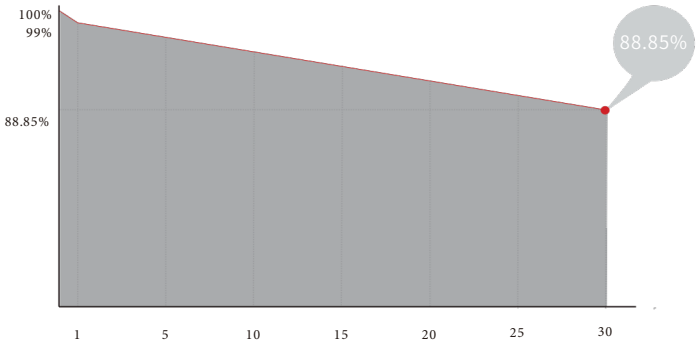
Hi-MO X10 Scientist

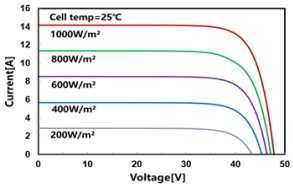
LR7-60HVD 530~550M

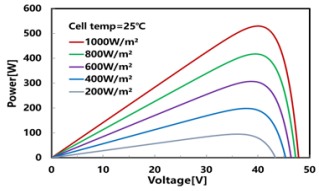
24.4%	0~+3%	<1%	0.35%	BC-CELL
MAX EFFICIENCY	BINNING TOLERANCE	FIRST YEAR POWER DEGRADATION	POWER DEGRADATION	LOWER OPERATING TEMPERATURE

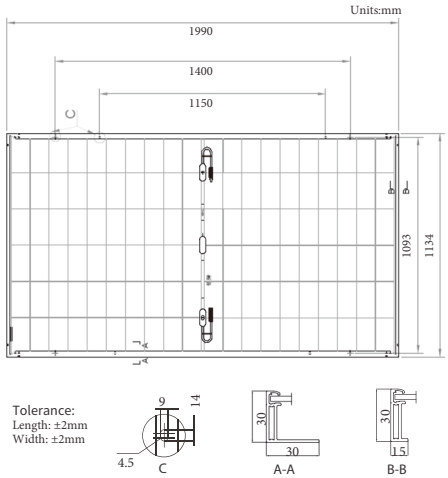
Additional Value

30-Year Power Warranty









Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4m m², +400, -200mm/±1400mm length can be customized
Glass	Dual glass 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	28kg
Dimension	1990×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20'GP / 792pcs per 40' HC
Connector	PV-LR5(Longi) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy(Stäubli)

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C Test uncertainty for Pmax: ± 3% Voc& Isc: ±5% BSI Bificiality: φPmax 70±5%, φVoc 98%±5%, φIsc 70±5%

Module Type	LR7-60HVD-530M	LR7-60HVD-535M	LR7-60HVD-540M	LR7-60HVD-545M	LR7-60HVD-550M
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	530	535	540	545	550
Open Circuit Voltage (Voc/V)	44.95	45.05	45.15	45.25	45.35
Short Circuit Current (Isc /A)	14.90	15.00	15.10	15.20	15.30
Voltage at Maximum Power (Vmp/V)	37.17	37.27	37.37	37.47	37.57
Current at Maximum Power (Imp /A)	14.26	14.36	14.45	14.55	14.64
Module Efficiency(%)	23.5	23.7	23.9	24.2	24.4
BSI Short Circuit Current (A)	18.03	18.15	18.28	18.40	18.52

Electrical Characteristics

BNPI : Irradiance:friont 1000/m² rear 135W/m² 25°C AM1.5 BSI: Friont 1000/m² rear 300 W/m² 25°C AM1.5

Module Type	LR7-60HVD-530M	LR7-60HVD-535M	LR7-60HVD-540M	LR7-60HVD-545M	LR7-60HVD-550M
Testing Condition	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax/W)	580	586	591	597	602
Open Circuit Voltage (Voc/V)	44.95	45.05	45.15	45.25	45.35
Short Circuit Current (Isc /A)	16.31	16.42	16.53	16.64	16.75
Voltage at Maximum Power (Vmp/V)	37.17	37.27	37.37	37.47	37.57
Current at Maximum Power (Imp /A)	15.61	15.71	15.82	15.92	16.02
Module Efficiency(%)	25.7	26.0	26.2	26.5	26.7

Operating Parameters

Module[T98] Max	+70°C
Power Binning Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2 °C
Protection Class	Class II
Bifaciality φPmax	70±5 %
Fire Rating	UL type 2 9 IEC Class C
Power Measurement Tolerance:	±3%

Mechanical Loading

Front Side Maximum Static Loading	+5400 Pa
Rear Side Maximum Static Loading	-2400 Pa
Hailstone Test	25mm Hail stone 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

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Website: www.longi.com/au

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