LONGi SOLAR

Hi-MO X10 Scientist

LR7-60HVD

530~555M

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

HPBC 2.0 | TaiRay | N-type

Bifacial Power Generation

15Y Product Warranty | 30Y Performance Warranty

Complete System and Product Certifications

IEC 61215,IEC 61730

IEC62941:Guideline for module design qualification and type approval

ISO9001:Quality Management System

ISO14001:Environment Management System

ISO45001:Occupational Health and Safety

TÜVRheinland CERTIFIED | TÜV SÜD | CE | TIER 1 Bloomberg NEW ENERGY FINANCE

THE smarter E AWARD

Hi-MO X10 Scientist

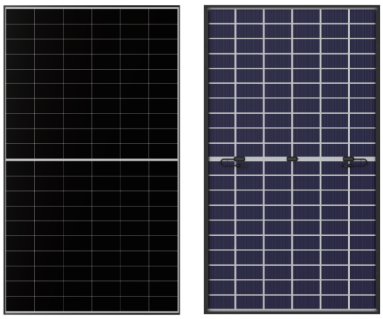
LR7-60HVD 530~555M

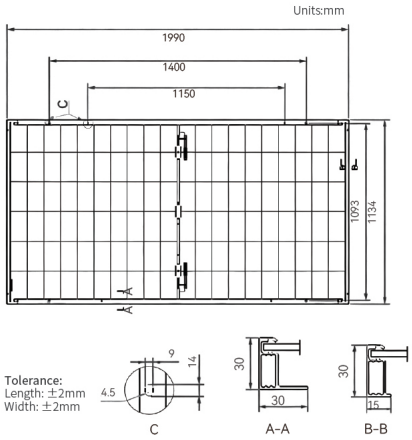
24.59%	1%	0.35%	-0.26%/℃
MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	BETTER TEMPERATUR COEFFICIENT

Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm²; +400/-200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	28 kg
Dimension	1990×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20'GP / 792pcs per 40'HC

Remark: 17.5m trucks are rated at 30t load. Actual loading quantity is subject to vehicle specs.





Electrical characteristics with different rear side power gain

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
535	45.05	15.00	37.27	14.36	0%
562	45.05	15.75	37.27	15.07	5%
589	45.05	16.50	37.27	15.79	10%
615	45.15	17.25	37.37	16.47	15%
642	45.15	18.00	37.37	17.18	20%
669	45.15	18.75	37.37	17.90	25%

Electrical Characteristics

·STC: Irradiance1000W/m², Cell Temperature 25℃, AM1.5 (Test uncertainty for Pmax: ±3%)

Module Type	LR7-60HVD-530M	LR7-60HVD-535M	LR7-60HVD-540M	LR7-60HVD-545M	LR7-60HVD-550M	LR7-60HVD-555M
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	530	535	540	545	550	555
Open Circuit Voltage (Voc/V)	44.95	45.05	45.15	45.25	45.35	45.45
Short Circuit Current (Isc/A)	14.90	15.00	15.10	15.20	15.30	15.40
Voltage at Maximum Power (Vmp/V)	37.17	37.27	37.37	37.47	37.57	37.67
Current at Maximum Power (Imp/A)	14.26	14.36	14.45	14.55	14.64	14.73
Module Efficiency (%)	23.49	23.71	23.93	24.15	24.37	24.59

Operating Parameters

Module [T98] Max	70℃
Operational Temperature	-40℃ ~ +85℃
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2℃
Protection Class	Class II
Bifaciality	φPmax: 70±5%
Fire Rating	IEC Class C

Mechanical Loading

Min Designed Mechanical Load	1600Pa/1600Pa
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%/℃
Temperature Coefficient of Voc	-0.200%/℃
Temperature Coefficient of Pmax	-0.260%/℃

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①Data Source:TUV CN250XRQ 001 Shadow Shading Test Report, Anti-shading effect vary due to differences in test irradiation conditions, temperature, software, etc.

②Data Source:IEC 61215-2:2021, MQT 09 Hot Spot Test. A comparison was made between the test temperatures of Hi-MO X10 and conventional modules. Test data may vary due to differences in tested modules and institutions.