Hi-MO X10

LONGi SOLAR

LR7-72HVD

635~645M

Advanced Technology
Superior efficiency for higher energy output.

Shading Management
Ensures optimal performanceand safety against hotspots.

Aesthetic
Gridlessdesign that blends seamlessly into any environment.

Safety
Preventsoverheating, with lower temperatures under shading conditions.

HPBC 2.0 | TaiRay | N-type

Bifacial Power Generation

15Y Product Warranty | 30Y Performance Warranty

Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety

IEC62941: Quality System for PV Manufacturing

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

Tesla Solar SA

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LR7-72HVD

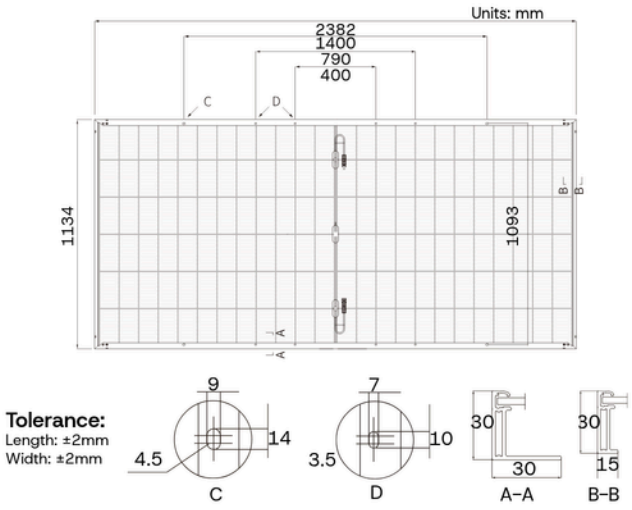
23.9%	0~3%	1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm2, +400, -200mm/±1400mm length can be customized
Connector	EVO2A(Staubli) or PV-LR5(LONGi)
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	32.5 kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC







Electrical characteristics with different rear side power gain

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
688.0	54.32	15.98	44.97	15.3	5%
721.0	54.32	16.74	44.97	16.03	10%
755.0	54.42	17.5	45.07	16.76	15%
788.0	54.42	18.26	45.07	17.48	20%
821.0	54.42	19.03	45.07	18.21	25%

Electrical Characteristics

STC : AM1.5 1000W/m2 25℃ NOCT : AM1.5 800W/m2 20℃ 1m/s

Test uncertainty for Pmax ±3%

Module Type	LR7-72HVD-635M		LR7-72HVD-640M		LR7-72HVD-645M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	635.0	483.4	640.0	487.2	645.0	491.0
Open Circuit Voltage (Voc/V)	53.92	51.24	54.02	51.34	54.12	51.43
Short Circuit Current (Isc/A)	14.89	11.96	14.98	12.03	15.06	12.1
Voltage at Maximum Power (Vmp/V)	44.57	42.36	44.67	42.45	44.77	42.55
Current at Maximum Power (Imp/A)	14.25	11.42	14.33	11.49	14.41	11.55
Module Efficiency(%)	23.9		23.7		23.9	

Operating Parameters

Operational Temperature	-40℃ ~ +85℃
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2℃
Protection Class	Class II
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 Resistance	30mm Hailstone at the speed of 23.9m/s - RG3[1]

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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(1) Certified RG3 (30mm) with additional internally validated resistance to 45 mm impacts at 30 m/s.

Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation.

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