Hi-MO 9

LR8-66HYD

635~670M

- Products for utility with optimal power generation through the entire lifecycle
- Performance improvement leads to a more than 6.5% power generation gain
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC 61730, UL 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 approval

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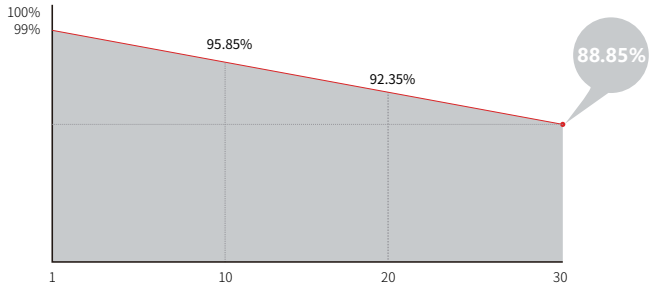
Hi-MO 9

LR8-66HYD 635~670M

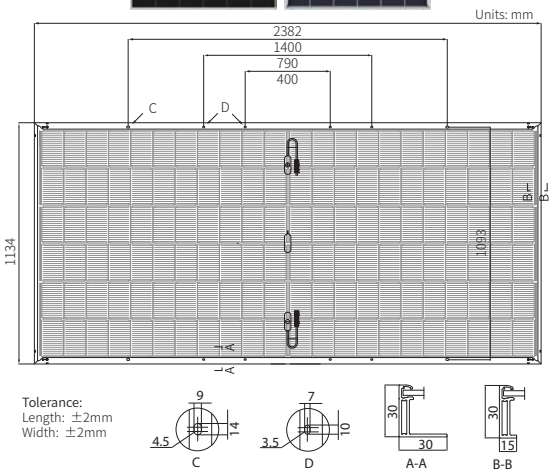
24.8%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Additional Value

30-Year Power Warranty







Tolerance:
Length: ±2mm
Width: ±2mm

Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC

Electrical Characteristics

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

Test uncertainty for Pmax: ±3%

Module Type	LR8-66HYD-635M		LR8-66HYD-640M		LR8-66HYD-645M		LR8-66HYD-650M		LR8-66HYD-655M		LR8-66HYD-660M		LR8-66HYD-665M		LR8-66HYD-670M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	635	483.4	640	487.2	645	491.0	650	494.8	655	498.6	660	502.4	665	506.2	670	510.0
Open Circuit Voltage (Voc/V)	49.42	46.97	49.52	47.06	49.62	47.16	49.72	47.25	49.82	47.35	49.92	47.44	50.02	47.54	50.12	47.63
Short Circuit Current (Isc/A)	16.30	13.09	16.38	13.16	16.46	13.22	16.54	13.28	16.62	13.35	16.70	13.41	16.78	13.48	16.86	13.54
Voltage at Maximum Power (Vmp/V)	40.68	38.66	40.78	38.76	40.88	38.85	40.98	38.95	41.08	39.04	41.18	39.14	41.28	39.23	41.38	39.33
Current at Maximum Power (Imp/A)	15.61	12.51	15.69	12.58	15.78	12.65	15.86	12.72	15.94	12.78	16.03	12.85	16.11	12.92	16.19	12.98
Module Efficiency(%)	23.5		23.7		23.9		24.1		24.2		24.4		24.6		24.8	

Electrical characteristics with different rear side power gain (reference to 645W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
677	49.62	17.28	40.88	16.57	5%
710	49.62	18.11	40.88	17.36	10%
744	49.62	18.93	40.98	18.15	15%
776	49.72	19.75	40.98	18.94	20%
808	49.72	20.58	40.98	19.73	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	35A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	75±5%
Fire Rating	UL type 29 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 Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

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Web: www.longi.com

Specifications included in this datasheet are subject to change without notice.
LONGi reserves the right of final interpretation. (20250327V1.0 Draft)