Hi-MO 9

LR8-66HYD

635~675M

- 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

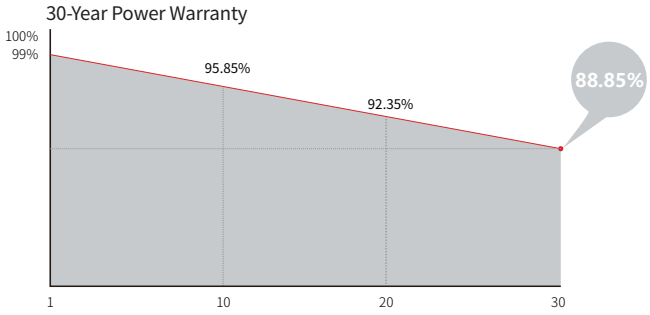
LONGi

Hi-MO 9

LR8-66HYD 635~675M

25.0%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

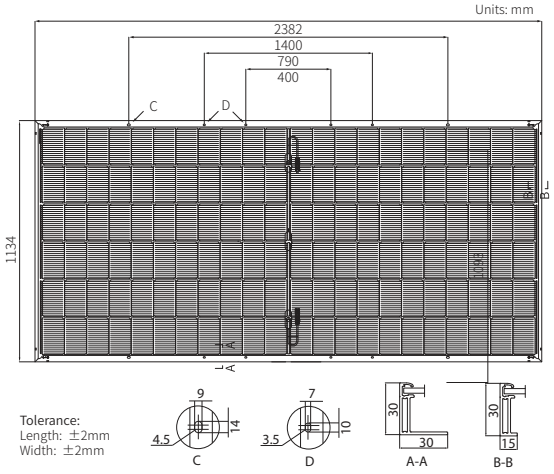
Additional Value



Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes Connector: PV-LR5(LONGi)
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

Units: mm



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

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
678	49.91	17.23	41.10	16.49	5%
710	49.91	18.05	41.10	17.27	10%
744	50.01	18.87	41.20	18.06	15%
776	50.01	19.69	41.20	18.84	20%
809	50.01	20.51	41.20	19.63	25%

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		LR8-66HYD-675M	
Testing Condition	STC	NOCT	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	675	513.8
Open Circuit Voltage (Voc/V)	49.71	47.24	49.81	47.34	49.91	47.43	50.01	47.53	50.11	47.62	50.21	47.72	50.31	47.81	50.41	47.91	50.51	48.00
Short Circuit Current (Isc/A)	16.25	13.05	16.33	13.12	16.41	13.18	16.49	13.24	16.57	13.31	16.65	13.37	16.73	13.44	16.81	13.50	16.89	13.57
Voltage at Maximum Power (Vmp/V)	40.90	38.87	41.00	38.97	41.10	39.06	41.20	39.16	41.30	39.25	41.40	39.35	41.50	39.44	41.60	39.54	41.70	39.63
Current at Maximum Power (Imp/A)	15.53	12.45	15.62	12.52	15.70	12.59	15.78	12.65	15.87	12.72	15.95	12.79	16.03	12.85	16.11	12.91	16.19	12.98
Module Efficiency(%)	23.5		23.7		23.9		24.1		24.2		24.4		24.6		24.8		25.0	

BNPI Electrical Characteristics

BNPI : AM1.5 Front:1000W/m² Back: 135W/m² 25°C 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	LR8-66HYD-675M
Testing Condition	BNPI	BNPI	BNPI	BNPI	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax/W)	695	700	706	711	717	722	728	733	739
Open Circuit Voltage (Voc/V)	49.71	49.81	49.91	50.01	50.11	50.21	50.31	50.41	50.51
Short Circuit Current (Isc/A)	17.79	17.87	17.96	18.05	18.14	18.22	18.31	18.40	18.49
Voltage at Maximum Power (Vmp/V)	40.90	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70
Current at Maximum Power (Imp/A)	16.99	17.10	17.18	17.27	17.37	17.46	17.54	17.63	17.72
Module Efficiency(%)	25.73	25.93	26.13	26.34	26.54	26.74	26.95	27.15	27.35

Operating Parameters

Operational Temperature	-40°C ~ +40°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	ϕPmax: 70±5% ϕVoc: 98±5% ϕIsc: 70±5%
Fire Rating	UL type 29 IEC Class C
Power Test Tolerance:	±3%

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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Specifications included in this datasheet are subject to change without notice.
LONGi reserves the right of final interpretation. (20250422V3.1)