

Annexe 9 – Fiche technique des modules photovoltaïques Longi 620

Hi-MO 7

LR7-72HGD 585~620M

23.0%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.4%
YEAR 2-30
POWER DEGRADATION

HALF-CELL
Lower operating temperature

Additional Value

30-Year Power Warranty

Year	Power (%)
1	100.0
5	95.8
10	91.6
15	87.4
20	83.2
25	79.0
30	87.4

Mechanical Parameters

Cell Orientation	144 (6×24)
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	33.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 180pcs 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	LR7-72HGD-585M	LR7-72HGD-590M	LR7-72HGD-595M	LR7-72HGD-600M	LR7-72HGD-605M	LR7-72HGD-610M	LR7-72HGD-615M	LR7-72HGD-620M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	585	445.3	590	449.1	595	452.9	600	456.7
Open Circuit Voltage (Voc/V)	51.89	49.32	52.00	49.42	52.11	49.53	52.22	49.63
Short Circuit Current (Isc/A)	14.25	11.45	14.33	11.51	14.41	11.58	14.49	11.64
Voltage at Maximum Power (Vmp/V)	43.79	41.62	43.90	41.72	44.01	41.83	44.12	41.93
Current at Maximum Power (Imp/A)	13.36	10.70	13.44	10.77	13.52	10.83	13.60	10.89
Module Efficiency(%)	21.7	21.8	22.0	22.2	22.4	22.6	22.8	23.0

Electrical characteristics with different rear side power gain (reference to 605W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
635	52.33	15.30	44.23	14.36	5%
666	52.33	16.03	44.23	15.05	10%
696	52.43	16.76	44.33	15.73	15%
726	52.43	17.49	44.33	16.41	20%
756	52.43	18.22	44.33	17.10	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	80±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	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C

LONGI

No.8369 Shangyuan Road, Xi'an Economic And
Technological Development Zone, Xi'an, Shaanxi, China.
Web: www.longi.com

Specifications included in this datasheet are
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