

LONGi

LONGi
BRIGHT 3

Non-monotonous PV Modules

HPBC
2.0

TaiRay



Model Compatibility

Universal sizing for standard panel types, effortless and worry-free color upgrades.



Color Aesthetics

Nearly a hundred standard color options, freely customize your selection.

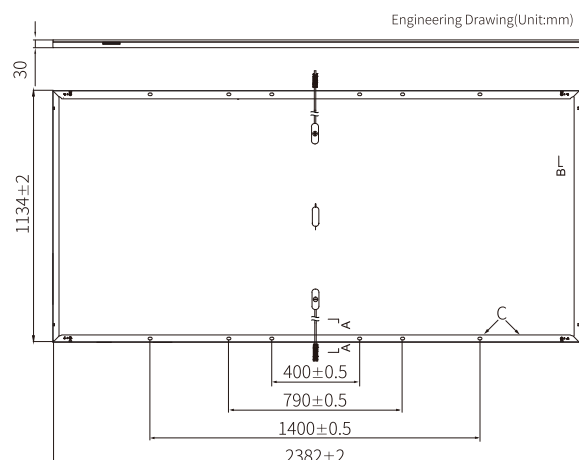
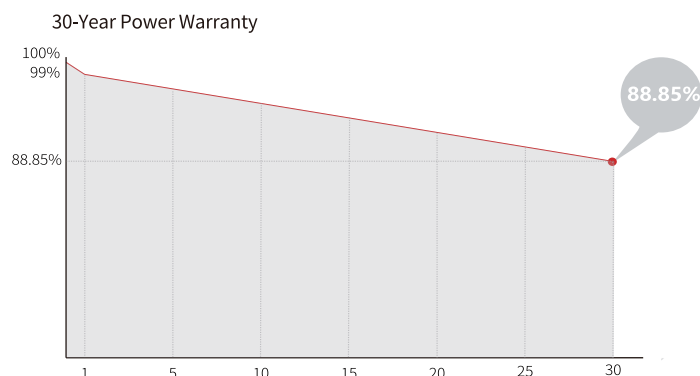


Value Innovation

Powered by HPBC 2.0 cell technology, delivering high-value architectural returns.



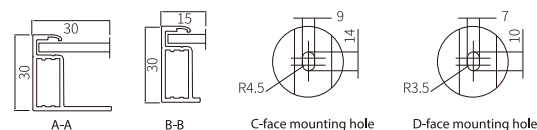
Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	Separate junction box, IP68, 3 diodes
Output Cable	4mm ² , +400/-200mm length can be customized
Color	Galaxy Silver/Eclipse Red/Space Grey/Ocean Blue
Glass	Front side: 2mm semi-tempered colored glass (Over 100 standard colors available) Back side: 2mm semi-tempered ultra-clear glass
Frame	Powder-coated aluminum alloy frame in the same color as the modules
Weight	33.5kg
Dimension	2382x1134x30mm
Packaging	144pcs 20' GP
	720pcs 40' HC
	720pcs 13.5-meter vehicle
	864pcs 17.5-meter vehicle

Note: The 17.5-meter vehicle is labeled with a 28-ton load capacity. Due to inconsistent specifications, the actual loading quantity upon arrival will be the final determination.



Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC ClassC

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°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

Electrical Characteristics

LGi7-72CHVD /420-580M

STC : AM1.5 1000W/m² 25°C

100 standard colors available. Shown below are for illustration only.

	Galaxy Silver			Eclipse Red			Cosmic Beige			Space Grey			Ocean Blue		
Module Type	LGi7-72CHVD 420M	LGi7-72CHVD 425M	LGi7-72CHVD 430M	LGi7-72CHVD 480M	LGi7-72CHVD 485M	LGi7-72CHVD 490M	LGi7-72CHVD 490M	LGi7-72CHVD 495M	LGi7-72CHVD 500M	LGi7-72CHVD 550M	LGi7-72CHVD 555M	LGi7-72CHVD 560M	LGi7-72CHVD 570M	LGi7-72CHVD 575M	LGi7-72CHVD 580M
Testing Condition	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	420	425	430	480	485	490	490	495	500	550	555	560	570	575	580
Open Circuit Voltage (Voc/V)	52.79	52.99	53.19	52.68	52.88	53.08	53.11	53.31	53.51	52.96	53.16	53.36	52.99	53.19	53.39
Short Circuit Current (Isc/A)	9.75	9.80	9.85	11.23	11.28	11.33	11.38	11.43	11.48	12.80	12.85	12.90	13.26	13.31	13.39
Voltage at Maximum Power (Vmp/V)	45.71	46.10	46.59	45.31	45.48	45.65	46.00	46.16	46.34	45.86	46.03	46.21	45.57	45.74	45.92
Current at Maximum Power (Imp/A)	9.19	9.23	9.28	10.67	10.71	10.76	10.72	10.77	10.81	12.06	12.11	12.15	12.60	12.64	12.69
Module Efficiency(%)	15.55	15.73	15.92	17.77	17.96	18.14	18.14	18.33	18.51	20.36	20.55	20.73	21.10	21.29	21.47

*The electrical performance parameters listed in this product catalogue do not refer to a single module, nor do they constitute the commitments outlined in the contract. These electrical performance parameters are only used for comparing different module types. LONGi does not guarantee their complete accuracy. Due to continuous innovation, research and product improvement, LONGi reserves the right to adjust the information in this technical parameter document at any time without prior notice.