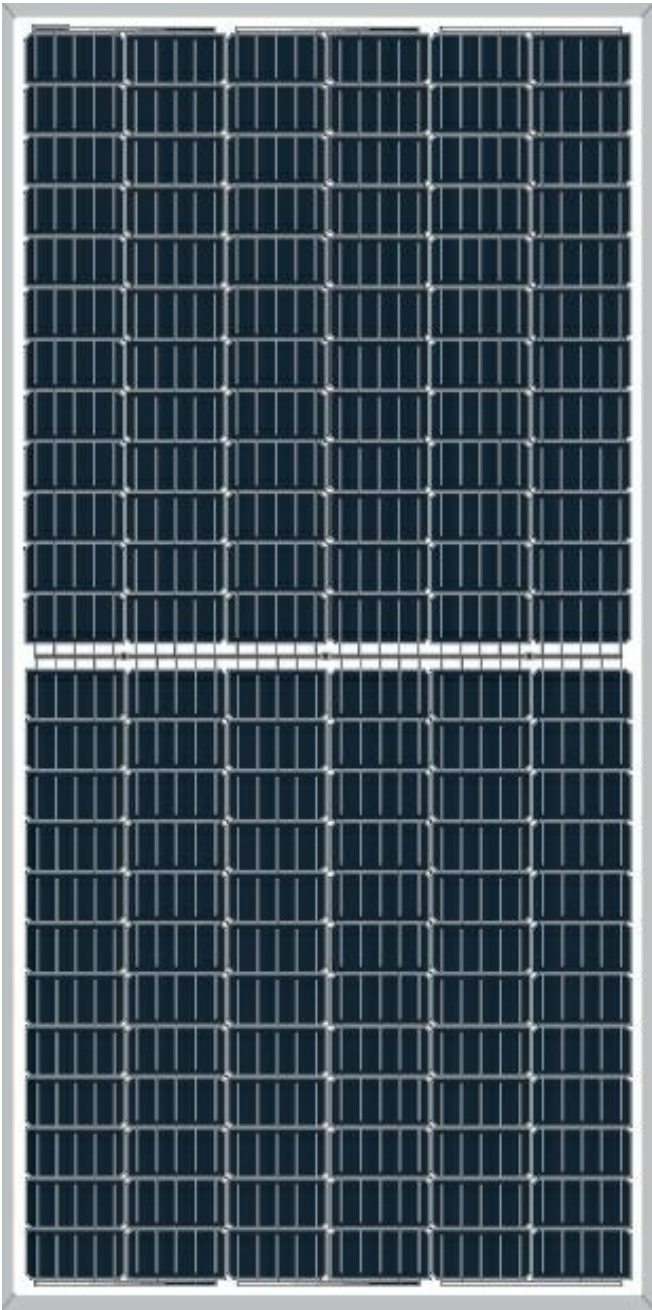
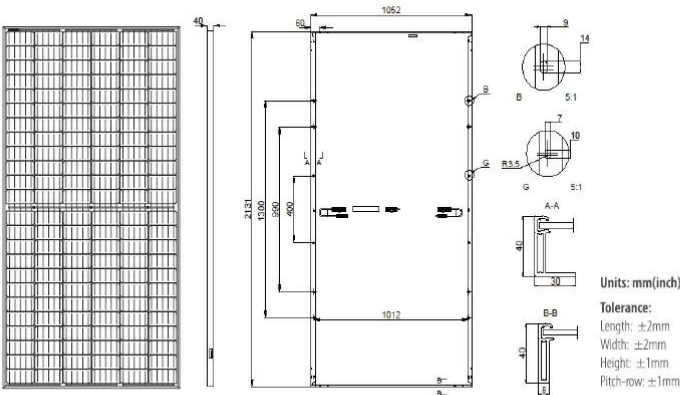


Modulo fotovoltaico "tipo" utilizzato

LONGi Solar LR4-72HBD 415~435M



Design (mm)



Mechanical Parameters

Cell Orientation: 144 (6x24)
Junction Box: IP68, three diodes
Output Cable: 4mm², 300mm in length, length can be customized
Glass: 2.0mm coated tempered glass
Weight: 29.0kg
Dimension: 2131x1052x40mm
Packaging: 26pcs per pallet
520pcs per 40'HC

Operating Parameters

Operational Temperature: -40°C ~ +85°C
Power Output Tolerance: 0 ~ +5 W
Voc and Isc Tolerance: ±3%
Maximum System Voltage: DC1500V (IEC&UL)
Maximum Series Fuse Rating: 20A
Nominal Operating Cell Temperature: 45±2°C
Application Class: Class II
Fire Rating: UL type 6
Bifaciality: ≥75%

Electrical Characteristics

Model Number	Test uncertainty for Pmax: ±3%									
	LR4-72HBD-415M		LR4-72HBD-420M		LR4-72HBD-425M		LR4-72HBD-430M		LR4-72HBD-435M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	308.6	420	312.3	425	316.0	430	319.7	435	323.5
Open Circuit Voltage (Voc/V)	49.0	45.6	49.2	45.8	49.4	46.0	49.6	46.2	49.8	46.4
Short Circuit Current (Isc/A)	10.73	8.69	10.80	8.74	10.86	8.80	10.93	8.85	11.00	8.91
Voltage at Maximum Power (Vmp/V)	40.6	37.7	40.8	37.9	41.0	38.1	41.2	38.2	41.4	38.4
Current at Maximum Power (Imp/A)	10.23	8.19	10.30	8.25	10.37	8.30	10.44	8.36	10.51	8.42
Module Efficiency(%)	18.5		18.7		19.0		19.2		19.4	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Electrical characteristics with different rear side power gain (reference to 425W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
446	49.4	11.41	41.0	10.88	5%
468	49.4	11.95	41.0	11.40	10%
489	49.5	12.49	41.1	11.92	15%
510	49.5	13.04	41.1	12.44	20%
531	49.5	13.58	41.1	12.96	25%

Temperature Ratings (STC)

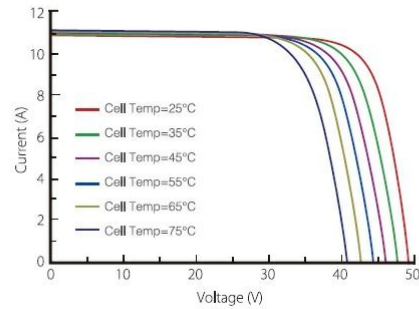
Temperature Coefficient of Isc	+0.060%/°C
Temperature Coefficient of Voc	-0.300%/°C
Temperature Coefficient of Pmax	-0.370%/°C

Mechanical Loading

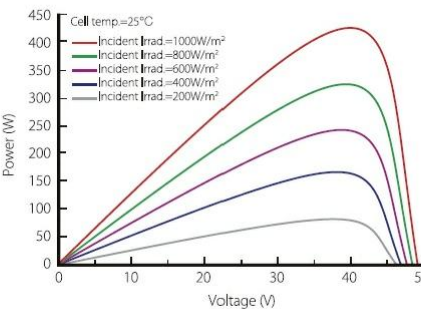
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

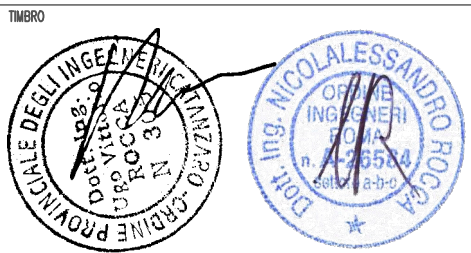
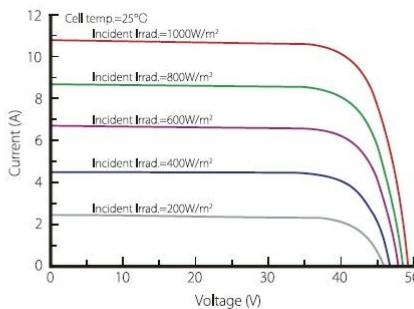
Current-Voltage Curve (LR4-72HBD-425M)




Power-Voltage Curve (LR4-72HBD-425M)



Current-Voltage Curve (LR4-72HBD-425M)



2		REVISIONE					TIPO DI ELABORATO: <div><input type="checkbox"/> PROGETTO PRELIMINARE <input checked="" type="checkbox"/> PROGETTO DEFINITIVO <input type="checkbox"/> PROGETTO ESECUTIVO <input type="checkbox"/> PROGETTO DI VARIANTE <input type="checkbox"/> A.S. BUILT</div>	COMMITTENTE	PROGETTISTA		LOCALITA' Comune di Benevento	NOME PROGETTO BENEVENTO 10	POTENZA 9,5 MW		
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