

SPI425M-72H SERIES

Mono MBB Half-Cell 400-425W Module

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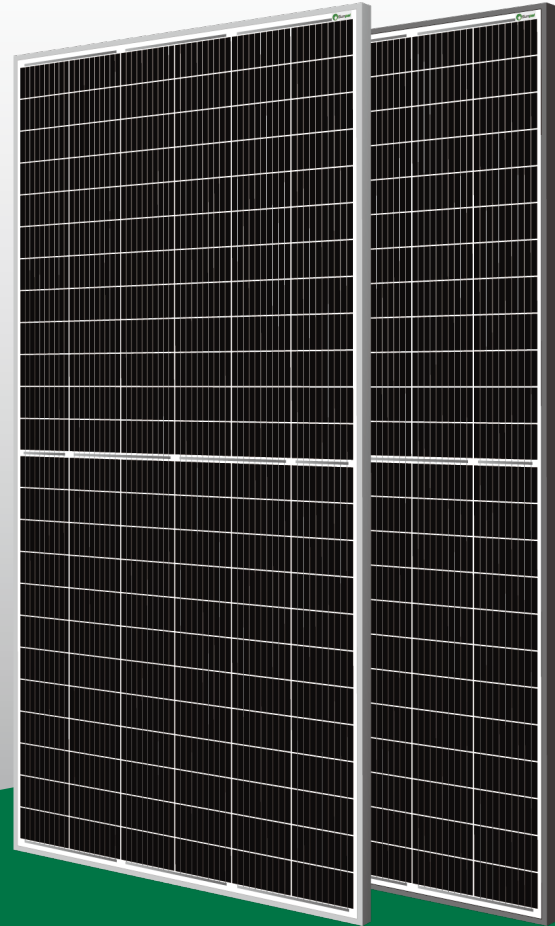
10-year product workmanship warranty

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10-year guarantee for 90% rated power

25

25-year guarantee for 80% rated power



Half-cut cell technology

Lower cell connection power losses
Lower hot spot temperature risk



Long weather resistance

Excellent anti-PID(Potential Induced Degradation)
Certified in fireproofing for safety



Excellent power generation performance

Guaranteed 0~+5W positive rated power tolerance ensures more power generation every day



Lower temperature coefficient

Improved temperature coefficient decreases power loss in the high temperature application.



Low-light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Stable mechanical performance

Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



ELECTRICAL DATA(STC)

Module	SP1xxxM-72H(XXX=400, 405, 410, 415, 420, 425)					
Peak Power Watts(Pmax/W)	400	405	410	415	420	425
Power Output Tolerance(W)	0 ~ +5					
Maximum Power Voltage(Vmp/V)	41.0	41.2	41.4	41.6	41.8	42.0
Maximum Power Current(Imp/A)	9.76	9.84	9.91	9.98	10.05	10.12
Open Circuit Voltage(Voc/V)	49.1	49.3	49.5	49.7	49.9	50.1
Short Circuit Current(Isc/A)	10.22	10.28	10.34	10.40	10.46	10.52
Module Efficiency(%)	19.72	19.97	20.22	20.46	20.71	20.96

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

ELECTRICAL DATA(NOCT)

Maximum Power(Pmax/W)	297.3	301.1	304.7	307.9	311.3	313.1
Maximum Power Voltage(Vmp)	38.2	38.5	38.6	38.9	39.1	39.3
Maximum Power Current(Imp)	7.78	7.83	7.89	7.92	7.96	7.97
Open Circuit Voltage(Voc)	45.7	45.8	46.0	46.2	46.3	46.5
Short Circuit Current(Isc)	8.25	8.30	8.35	8.40	8.45	8.50

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2024 × 1004 × 35 mm (79.69 × 39.53 × 1.38 inches)
Weight	22.8kg (50.3lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver / Black Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cables	4.0mm ²
Connector	MC4

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	41°C (±3°C)
Temperature Coefficient of Pmax	- 0.37%/°C
Temperature Coefficient of Voc	- 0.29%/°C
Temperature Coefficient of Isc	+0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
	1500V DC (UL)
Max Series Fuse Rating	20A

WARRANTY

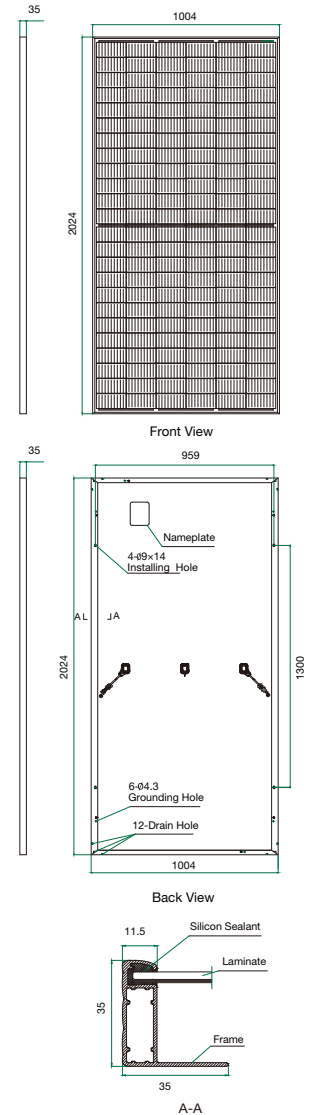
10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

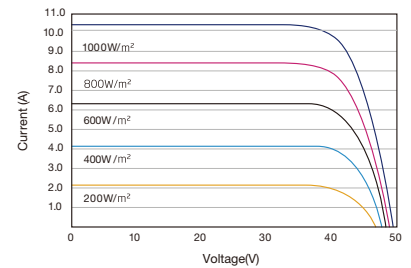
PACKAGING CONFIGURATION

Modules per box: 30 pieces
Modules per 40' container: 660 pieces

DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(405W)



P-V CURVES OF PV MODULE(405W)

