

# SPI415M6-72HC SERIES

## Mono MBB Half-Cell 390-415W Module

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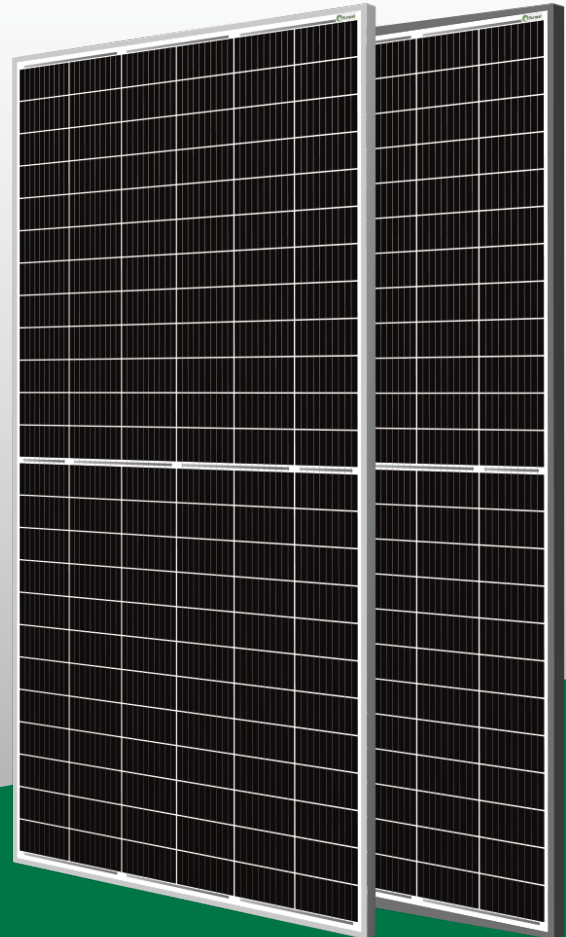
10-year product workmanship warranty

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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	SP1xxxM6-72HC(XXX=390,395,400,405,410,415)					
Peak Power Watts(Pmax/W)	390	395	400	405	410	415
Power Output Tolerance(W)	0 ~ +5					
Maximum Power Voltage(Vmp/V)	40.2	40.5	40.8	41.1	41.4	41.7
Maximum Power Current(Imp/A)	9.71	9.76	9.81	9.86	9.91	9.96
Open Circuit Voltage(Voc/V)	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current(Isc/A)	10.25	10.29	10.33	10.37	10.41	10.45
Module Efficiency(%)	19.2	19.4	19.7	19.9	20.2	20.4

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
\*Measuring tolerance: ±3%.

### ELECTRICAL DATA(NOCT)

Maximum Power(Pmax/W)	294	298	302	305	309	313
Maximum Power Voltage(Vmp)	37.7	38.0	38.2	38.5	38.8	39.0
Maximum Power Current(Imp)	7.81	7.85	7.89	7.92	7.97	8.01
Open Circuit Voltage(Voc)	45.6	45.8	46.0	46.2	46.4	46.6
Short Circuit Current(Isc)	8.27	8.30	8.33	8.36	8.39	8.43

NOCT: Irradiance 800W/m<sup>2</sup>, 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 <sup>2</sup>
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

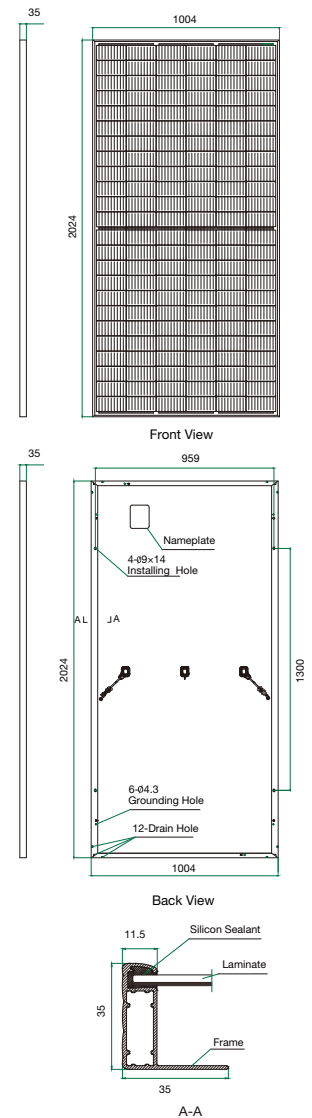
10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

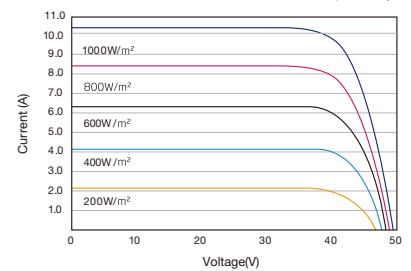
### PACKAGING CONFIGURATION

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)

