

MONO

M6 HALF CELL MONO

450W-460W

144 CELL

M6 MBB MONO PERC

450W-460W

POWER OUTPUT RANGE

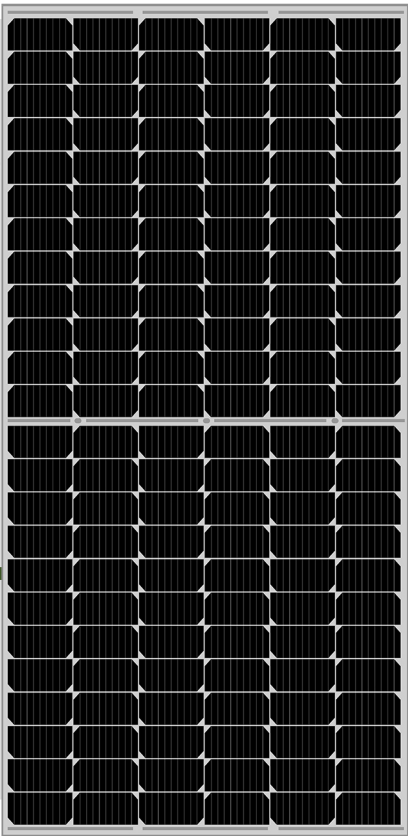
21.2%

MAXIMUM EFFICIENCY

0 to +5W

POSITIVE POWER TOLERANCE

CERTIFICATION



Ideal for large scale installations

- High power footprint reduces installation time & BOS costs



One of the industry's most trusted modules

- Field proven performance



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant

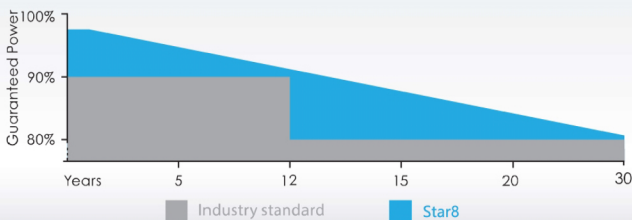


Certified to withstand challenging environmental conditions

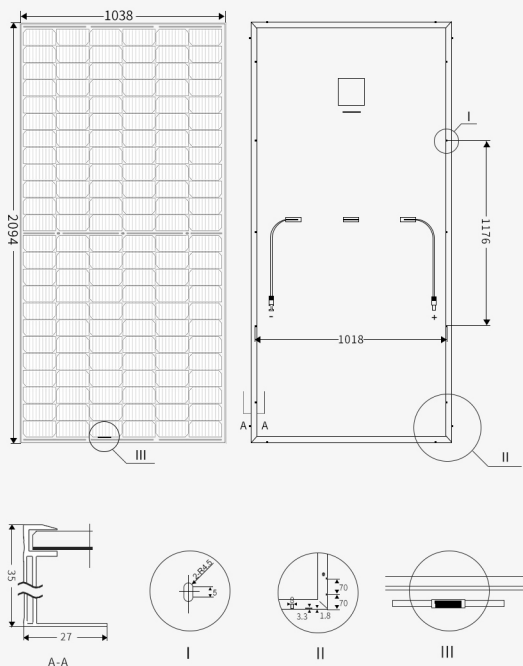
- 2400 Pa wind load
- 5400 Pa snow load
- 25 mm hail stones at 82 km/h

LINEAR PERFORMANCE WARRANTY

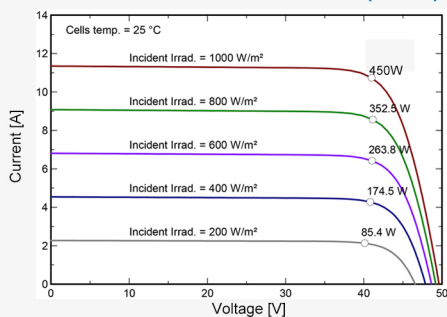
12 Year Product Warranty • 30 Year Linear Power Warranty



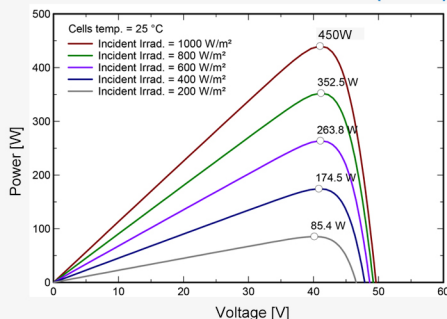
DIMENSIONS OF PV MODULE



I-V CURVES OF PV MODULE (450W)



P-V CURVES OF PV MODULE (450W)



ELECTRICAL DATA @STC

	PW-72M450HM6	PW-72M455HM6	PW-72M460HM6
Peak Power Watts- P_{MAX} (Wp)	450	455	460
Power Output Tolerance- P_{MAX} (W)	0~ +5	0~ +5	0~ +5
Maximum Power Voltage- V_{MPP} (V)	41.39	41.59	41.79
Maximum Power Current- I_{MPP}	10.88	10.95	11.02
Open Circuit Voltage- V_{OC} (V)	50.1	50.34	50.58
Short Circuit Current- I_{SC} (A)	11.48	11.55	11.62
Module Efficiency η_m (%)	20.7	20.9	21.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT

	PW-72M450HM6	PW-72M455HM6	PW-72M460HM6
Maximum Power- P_{MAX} (Wp)	333.2	336.6	340
Maximum Power Voltage- V_{MPP} (V)	38.26	38.45	38.64
Maximum Power Current- I_{MPP} (A)	8.7	8.76	8.82
Open Circuit Voltage- V_{OC} (V)	46.76	47	47.24
Short Circuit Current- I_{SC} (A)	9.22	9.28	9.34

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

MECHANICAL DATA

Solar Cells	MBB MONO PERC 166*83mm
Cell Orientation	144cell (6x24)
Module Dimensions	2094*1038*35mm
Weight	23.5kg
Glass	3.2mm(0.13inches),High Transmission,AR Coated Heat Stenghtened Glass
Backsheet	White
Frame	35mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology cable 4.0mm ² ,1200mm
Connector	MC4EV02/TS4*

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P_{MAX}	0.36%/°C
Temperature Coefficient of V_{OC}	0.28%/°C
Temperature Coefficient of I_{SC}	0.048%/°C

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	20A
Mechanical Load	5400pa
Wind Load	2400pa

PACKING CONFIGURATION

Modules per box: 31 pieces
Modules per 40' container: 726 pieces

WARRANTY

12 year workmanship warranty
30 year linear performance warranty

(Please refer to product warranty for details)

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