IM72 SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 300-310 Wp

FEATURES INCLUDE:

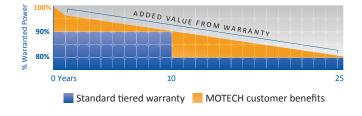
- 72 MOTECH multicrystalline solar cells connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency: maximum efficiency of 15.9%
- Dual certified to UL and International IEC standards
- Designed for 600V or 1000V systems
- Tested up to 5400Pa for maximum load resistance
- Progressive Power Warranty guarantees 80.2% of rated power at 25 years
- · Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable MOTECH silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

- · 25-year progressive power warranty
- · 10-year warranty on materials and workmanship





CERTIFICATIONS & STANDARDS*











Application Class A

Safety Class II

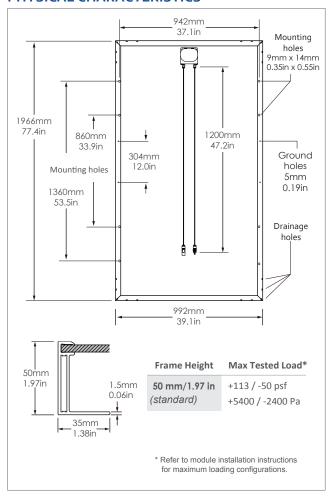




^{*} Please refer to our website at www.motechsolar.com for certification and warranty details



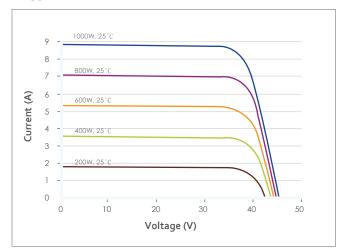
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Weight	58.86 lb [26.7 kg]
Glass	4.0mm low iron tempered glass with anti-reflective coating
Hailstone Impact Resistance	1" @ 50 mph [25 mm @ 80 kph]
Junction Box	IP65/IP67 rated UL 600V/IEC 1000V Certified
Output Cables	4.0mm² Universal PVWire, 1200mm[47.2in]
Connectors	MC4 Compatible

IV CURVE



ELECTRICAL PERFORMANCE IM72C3-300 IM72C3-305 IM72C3-310

STC Peak Power (W)	3	300		305		310	
NOCT Peak Power (W)							
Efficiency (%)	15	15.4%		15.6%		.9%	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	
Max. Power Voltage Vmpp(V)	36.20	33.21	36.60	33.58	36.90	33.85	
Max. Power Current Impp(A)	8.29	6.68	8.33	6.72	8.40	6.78	
Open Circuit Voltage Voc(V)	44.90	41.85	45.30	42.22	45.59	42.49	
Short Circuit Current Isc(A)	8.72	7.07	8.76	7.11	8.83	7.16	

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.07 ± 0.02	Max. Series Fuse	15A	
Voc Temperature Coefficient	β (%/°C)	-0.34 ± 0.01	Max. System Voltage	IEC	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.46 ± 0.02	man e jetem tertage	UL	600V/1000V
Efficiency Reduction at 200W/m², 25°C		<5%	Normal Operating Cell Temp. (NOCT)		45°C ± 2°C
Operating Temperature		-40°C ~ +85°C	Limiting Reverse Current (Ir)		15A

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice. Motech reserves the rights of final interpretation and revision on this datasheet.

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