



IM72 SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 285-310 Wp

FEATURES INCLUDE:

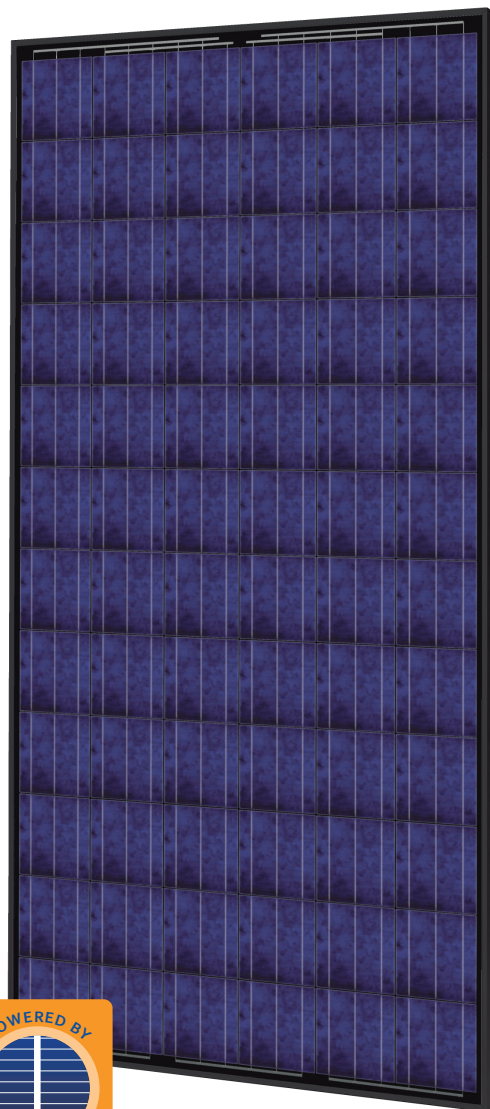
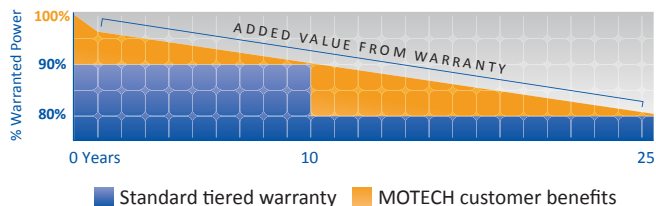
- 72 MOTTECH multicrystalline solar cells connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency: maximum efficiency of 16.02%
- Tested up to 5400Pa for maximum load resistance
- Progressive Power Warranty guarantees 80.2% of rated power at 25 years
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTTECH modules are powered by industry acknowledged high performance, reliable MOTTECH 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*

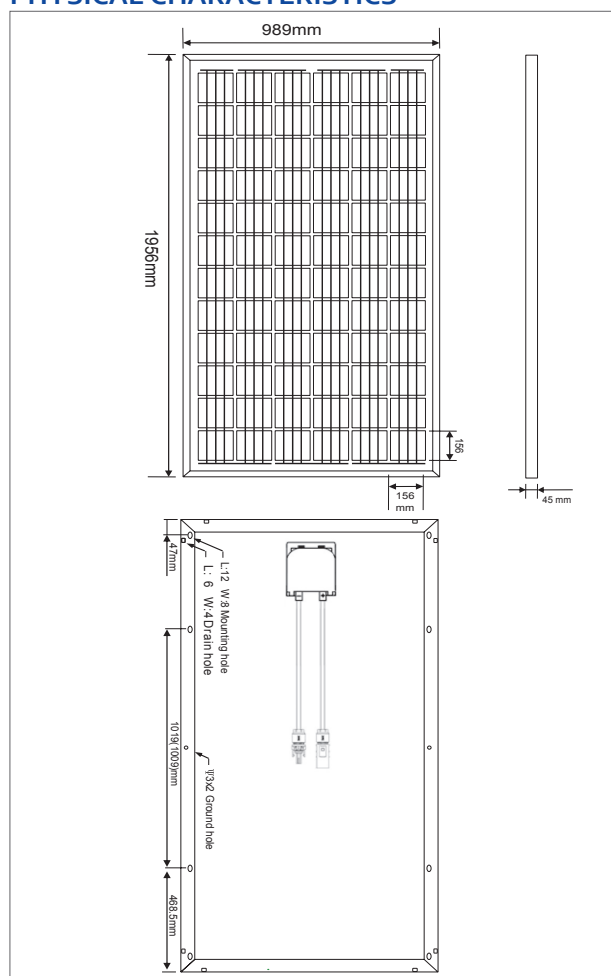
- 25-year progressive power warranty
- 10-year warranty on materials and workmanship



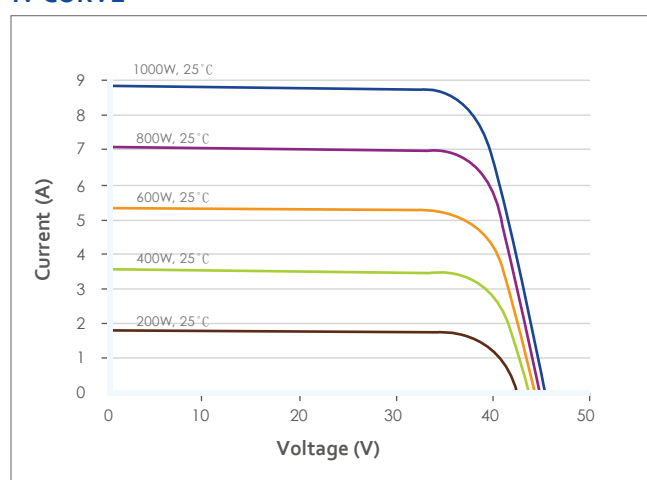
CERTIFICATIONS & STANDARDS*



* Please refer to our website at www.mottechsolar.com for certification and warranty details

PHYSICAL CHARACTERISTICS

PHYSICAL DESIGN PROPERTIES

Weight	22.5 kg
Glass	3.2mm low iron tempered glass with anti-reflective coating
Hailstone Impact Resistance	25 mm nail at 23m/s
Junction Box	IP65/IP67 rated
Output Cables	4.0mm ² Universal PVWire, 1600mm
Connectors	MC4 Compatible

IV CURVE

ELECTRICAL PERFORMANCE

IM72B3-285-G IM72B3-290-G IM72B3-295-G IM72B3-300-G IM72B3-305-G IM72B3-310-G

STC Peak Power (W)	285	290	295	300	305	310
Efficiency (%)	14.73%	14.99%	15.25%	15.51%	15.77%	16.02%
Test Conditions	STC	STC	STC	STC	STC	STC
Max. Power Voltage V _{mpp} (V)	35.10	35.20	35.37	35.50	35.59	35.76
Max. Power Current I _{mpp} (A)	8.12	8.24	8.34	8.45	8.57	8.67
Open Circuit Voltage Voc(V)	44.53	44.61	44.69	44.78	44.88	44.97
Short Circuit Current I _{sc} (A)	8.51	8.62	8.72	8.83	8.95	9.05

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.04	Max. Series Fuse	12A
Voc Temperature Coefficient	β (%/°C)	-0.33	Max. System Voltage	IEC 1000V
P _{max} Temperature Coefficient	γ (%/°C)	-0.46	Nominal Operating Cell Temp. (NOCT)	43.4°C
Efficiency Reduction at 200W/m ² , 25°C		<5%		

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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