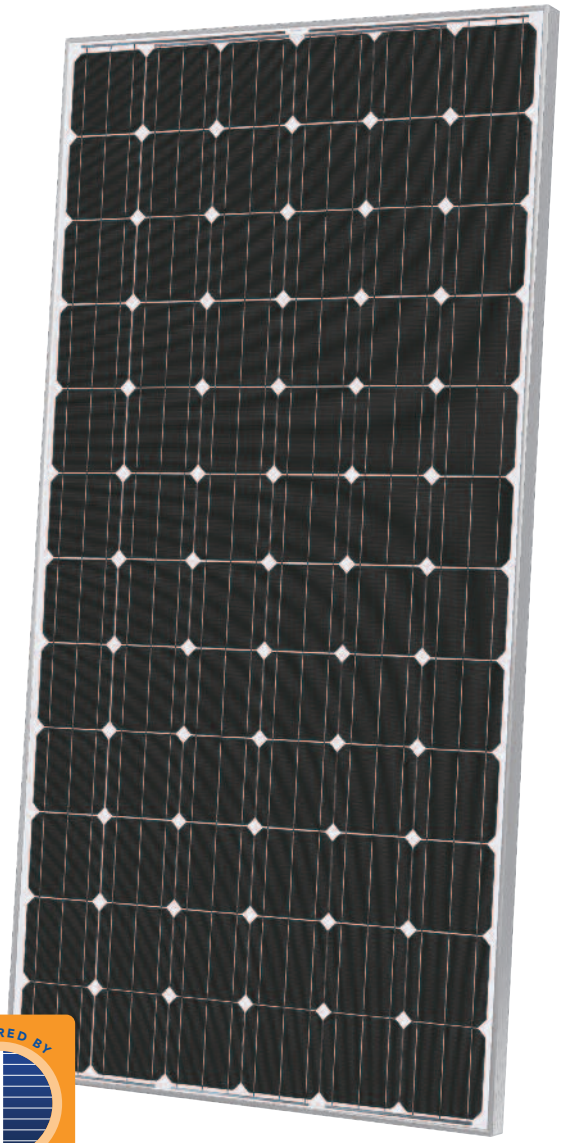
XS72 SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 300–310 Wp

FEATURES INCLUDE:

- 72 MOTECH monocrystalline solar cells connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency
- 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 80.7% of rated power at 25 years
- Manufactured globally with world-class quality standards

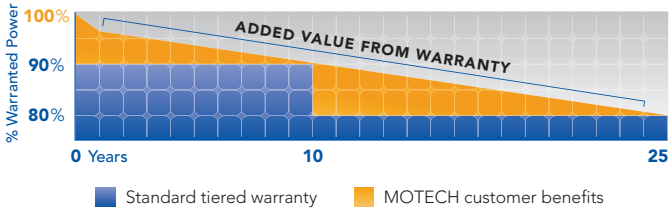


QUALITY, RELIABILITY, AND KWH YIELD

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



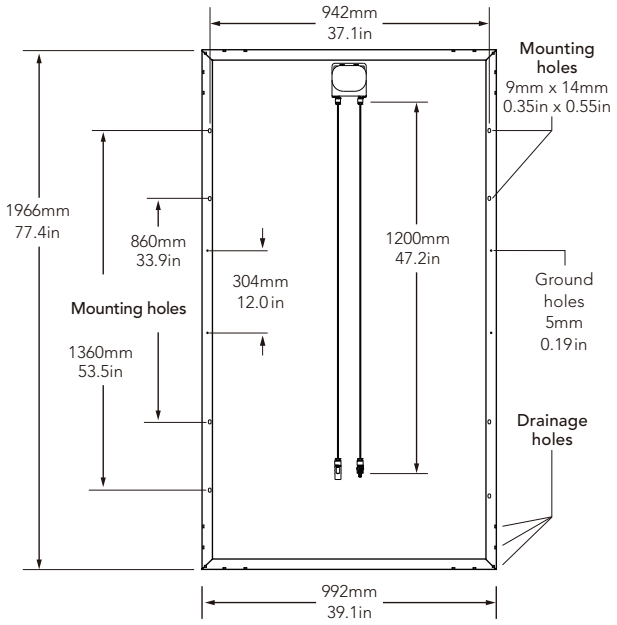
CERTIFICATIONS & STANDARDS*

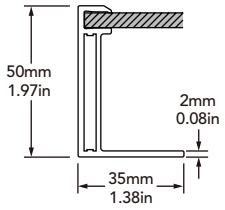
UL1703
IEC61215
IEC61730-1,2

Application Class A
Safety Class II

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

PHYSICAL CHARACTERISTICS





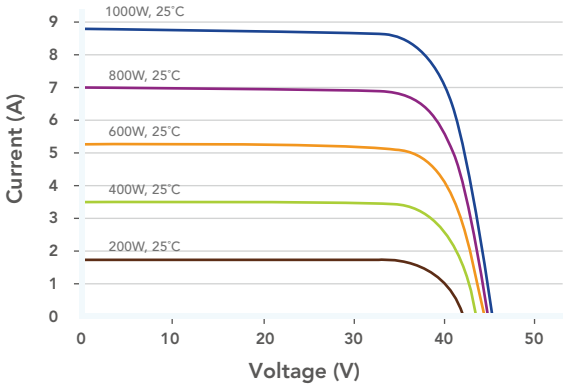
Frame Height	Max Tested Load*
50mm/1.97in *(standard)*	+113 / -50 psf +5400 / -2400 Pa

* Refer to module installation instructions for maximum loading configurations.

PHYSICAL DESIGN PROPERTIES

Weight	60.0 lb [27.2 kg]
Glass	4.0mm low iron, extra clear, tempered PV glass
Hailstone Impact Resistance	1" @ 50 mph [25 mm @ 80 kph]
Junction Box	Yukita YJB-16, IP65 rated UL 600V/IEC 1000V Certified
Output Cables	4.0mm² Universal PV Wire, 1200mm [47.2 in]
Connectors	MC4 Compatible

IV CURVE



ELECTRICAL PERFORMANCE

	XS72C3-300-Y12B50		XS72C3-305-Y12B50		XS72C3-310-Y12B50	
STC Peak Power (W)	300		305		310	
NOCT Peak Power (W)	219		223		227	
Efficiency (%)	15.4%		15.6%		15.9%	
Test Conditions	**STC**	**NOCT**	**STC**	**NOCT**	**STC**	**NOCT**
Max. Power Voltage Vmpp(V)	36.85	33.41	37.24	33.85	37.64	34.23
Max. Power Current Impp(A)	8.14	6.54	8.19	6.58	8.24	6.62
Open Circuit Voltage Voc(V)	45.00	41.33	45.35	41.76	45.65	42.03
Short Circuit Current Isc(A)	8.73	7.08	8.77	7.11	8.82	7.15

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 (UL & IEC)	600V, 1000V
Pmax Temperature Coefficient	γ(%/°C)	-0.46 ±0.02	Normal Operating Cell Temp. (NOCT)	46°C ± 2°C
Efficiency Reduction at 200W/m², 25°C		<5%	Limiting Reverse Current (Ir)	9.0A

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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