



# XS60 SERIES DOUBLE-GLASS PV MODULES

PEAK POWER: 280-300 Wp

## FEATURES INCLUDE:

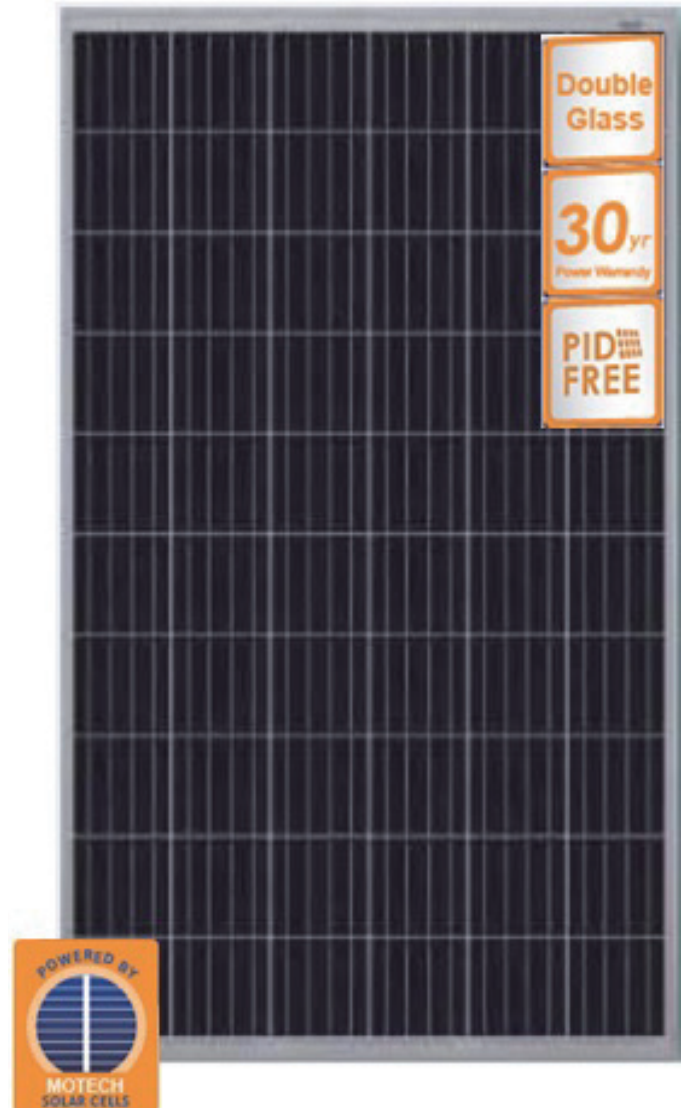
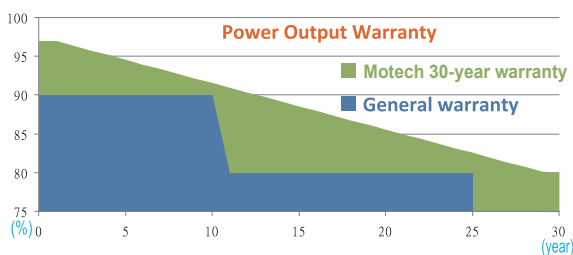
- 60 MOTEC monocrystalline solar cells comprised by double layers of glasses
- Long-term durability and robustness in harsh environments.
- Excellent sealing protection from condensation and vapor
- Tested up to 5400Pa for maximum load resistance
- Passed rigorous extended damp heat testing of 85°C , 85%RH for the duration of 5000 hours
- Anti-PID protection
- Progressive Power Warranty guarantees 80% of rated power at 30 years

## QUALITY, RELIABILITY, AND KWH YIELD

MOTEC modules are powered by industry acknowledged high performance, reliable MOTEC 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.

## 30-YEAR PROGRESSIVE WARRANTY\*

- 80% for 30 years power output warranty
- 10 years warranty on materials and workmanship

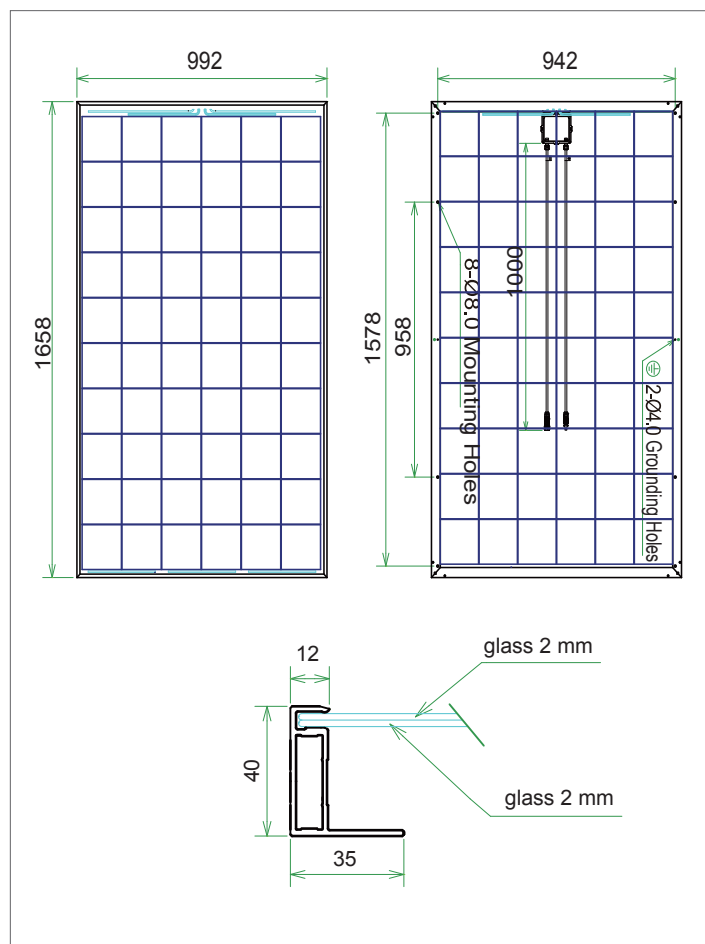


## CERTIFICATIONS & STANDARDS\*

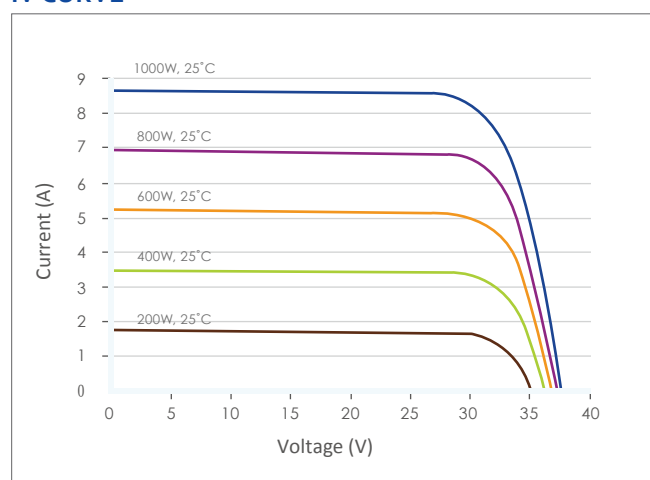


Application Class A  
Safety Class II

\* Please refer to our website at [www.motechsolar.com](http://www.motechsolar.com) for certification and warranty details

**PHYSICAL CHARACTERISTICS**

**PHYSICAL DESIGN PROPERTIES**

Weight	22 kg
Glass	2.0mm Tempered Coated PV Glass
Hailstone Impact Resistance	1" @ 50 mph [25 mm @ 80 kph]
Junction Box	IP67
Output Cables	4.0mm <sup>2</sup> Universal PVWire, 1000mm
Connectors	MC4 Compatible

**IV CURVE**

**ELECTRICAL PERFORMANCE**

	XS60C4-280-DG	XS60C4-285-DG	XS60C4-290-DG	XS60C4-295-DG	XS60C4-300-DG
STC Peak Power (W)	280	285	290	295	300
Efficiency (%)	17.0%	17.3%	17.6%	17.9%	18.2%
Test Conditions	STC	STC	STC	STC	STC
Max. Power Voltage V <sub>mpp</sub> (V)	32.1	32.22	32.58	32.46	32.75
Max. Power Current I <sub>mpp</sub> (A)	8.72	8.85	8.9	9.09	9.16
Open Circuit Voltage Voc(V)	39.34	39.93	40.17	39.9	40.02
Short Circuit Current Isc(A)	9.49	9.52	9.63	9.60	9.74

**ELECTRICAL PERFORMANCE PARAMETERS**

Isc Temperature Coefficient	$\alpha$ (%/°C)	+0.08	Max. Series Fuse	15A
Voc Temperature Coefficient	$\beta$ (%/°C)	-0.38	Max. System Voltage	IEC 1000V
P <sub>max</sub> Temperature Coefficient	$\gamma$ (%/°C)	-0.48	Normal Operating Cell Temp. (NOCT)	46°C ± 2°C
Efficiency Reduction at 200W/m <sup>2</sup> , 25°C		<5%	Limiting Reverse Current (I <sub>r</sub> )	15A

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m<sup>2</sup>, AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. Specifications are subject to change without notice. Motech reserves the rights of final interpretation and revision on this datasheet.

**Preliminary Oct. 2016**