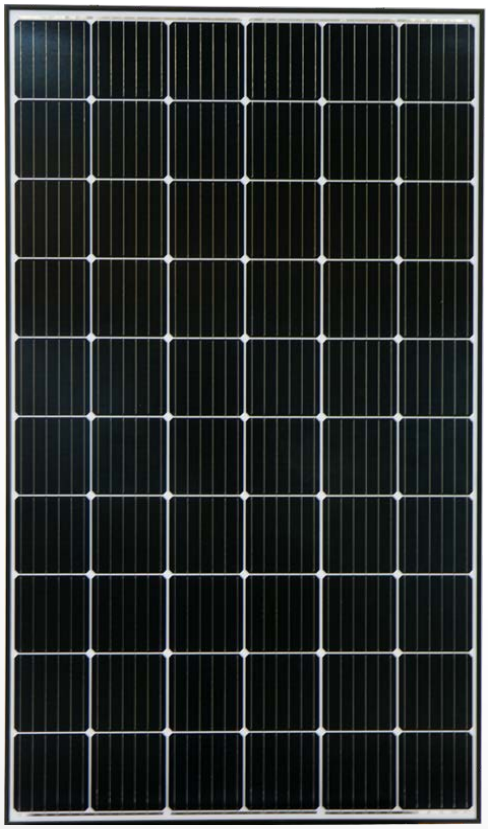
AMERICA'S MODULE COMPANY™

MISSION SOLAR ENERGY

MSE PERC 60



CERTIFIED RELIABILITY
› Tested to UL 61730 & IEC standards
› PID resistant
› Resistance to salt mist corrosion

ADVANCED TECHNOLOGY
› PERC and 6 busbar drive >19% module efficiency
› Ideal for all applications

EXTREME WEATHER RESILIENCE
› 5600 Pa front and 4800 Pa back load
› Tested to UL 61730

BAA COMPLIANT FOR GOVERNMENT PROJECTS
› Buy American Act
› American Recovery & Reinvestment Act

FRAME-TO-FRAME 25 YEAR WARRANTY

MODULES ASSEMBLED DESIGNED & ENGINEERED IN THE USA OF U.S. AND NON-U.S. PARTS

CLASS LEADING POWER OUTPUT

335 – 350 W

POSITIVE POWER TOLERANCE

-0 to +3 %

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2.5% in year one and 0.7% annually from years two to 30 with 80.7% guaranteed in year 25

CERTIFICATIONS

UL 61730
IEC 61215 - IEC 61730
IEC 61701

c UL us LISTED

CEC

TÜV SÜD

The True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas, where we manufacture our modules. We produce American, high quality solar modules ensuring the highest in-class power output and best in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long-term. Demand the best, demand Mission Solar Energy.

Please contact Mission Solar Energy if you have questions or concerns about certification of our products in your area.

*Standard 12-year product warranty extendable to 25 years with registration:
www.missionsolar.com/warranty/

PERC 60

CLASS-LEADING 335-350 W

ELECTRICAL SPECIFICATION

Product Type	MSExxxSX5K (xxx=P_{max})					
Power Output	P_{max}	W_p	335	340	345	350
Module Efficiency		%	18.2	18.5	18.7	19.0
Tolerance		%	0/+3	0/+3	0/+3	0/+3
Short Circuit Current	I_{sc}	V	10.85	10.91	10.97	11.05
Open Circuit Voltage	V_{oc}	A	40.35	40.53	40.71	40.95
Rated Current	I_{mp}	V	10.19	10.28	10.38	10.48
Rated Voltage	V_{mp}	V	32.89	33.06	33.24	33.41
Fuse Rating		A	20	20	20	20
System Voltage		V	1000	1000	1000	1000

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45.86°C (±3.7%)
Temperature Coefficient of P_{max}	-0.361%/°C
Temperature Coefficient of V_{oc}	-0.262%/°C
Temperature Coefficient of I_{sc}	0.049%/°C

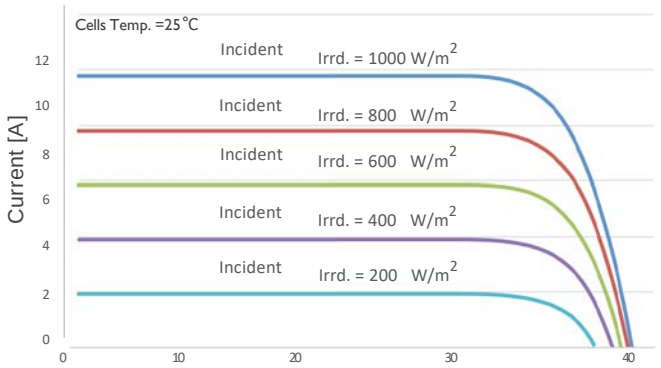
OPERATING CONDITIONS

Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°C (-40°F) to +85°C (185°F)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1
Front & Back Load (UL Standard)	5600 Pa front and 4800 Pa back load Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA

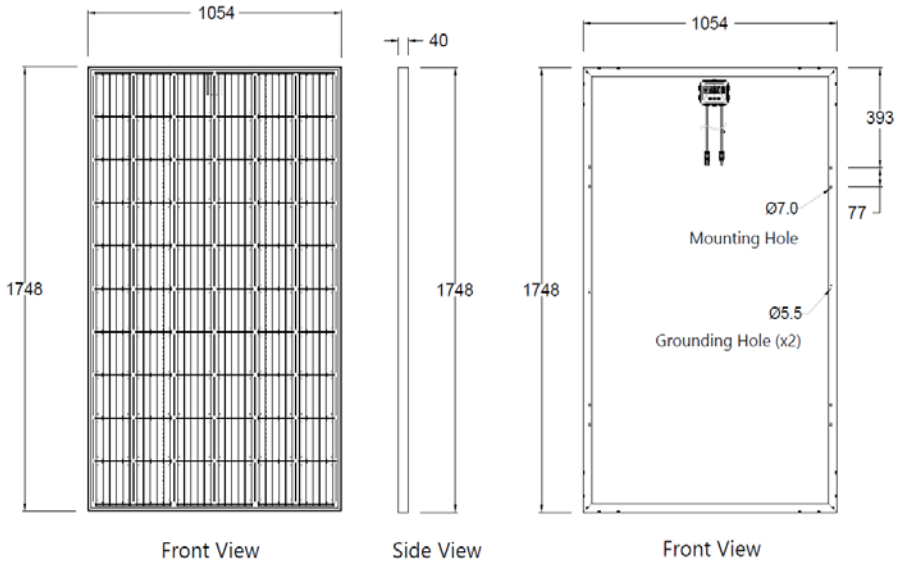
Solar Cells	P-type mono-crystalline silicon
Cell Orientation	60 cells (6x10)
Module Dimension	1748mm x 1054mm x 40mm
Weight	20.3 kg (44.8 lbs.)
Front Glass	3.2mm, tempered, low-iron, anti-reflective
Frame	Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.0m, Wire 4㎟ (12AWG)
Connector	Staubli, MC4, Renhe 05-8

MSE350SX5K: 350WP, 60 CELL SOLAR MODULE CURRENT - VOLTAGE CURVE



Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DIMENSIONS (UNITS: mm)



CERTIFICATIONS & TESTS

IEC	61215, 61730, 61701
UL	61730

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SHIPPING INFORMATION

Container FT		Pallets	Panels	350 W Bin
53′	Double Stack	36	936	327.60 kW
40′	Double Stack	28	728	254.80 kW

Pallet [26 Panels]			
Weight	Height	Width	Length
1263 lbs.	47.5 in	46 in	70.25 in
(573 kg)	(120.65 cm)	(116.84 cm)	(178.4 cm)

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