

### CLASS LEADING POWER OUTPUT

# 345 W

#### POSITIVE POWER TOLERANCE

## -0 to +3 %

### 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.



#### CERTIFIED RELIABILITY

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



#### ADVANCED TECHNOLOGY

- › PERC and 6 busbar drive 18.7% module efficiency
- › Ideal for all applications



#### EXTREME WEATHER RESILIENCE

- › 5600 Pa front and 4800 Pa back load
- › Tested load to UL 61730
- › 40mm frame



#### BAA COMPLIANT FOR GOVERNMENT PROJECTS

- › Buy American Act
- › American Recovery & Reinvestment Act



#### FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.7% annually from years two to 30 with 81.2% guaranteed in year 25.

#### CERTIFICATIONS

UL 61730  
IEC 61215 - IEC 61730  
IEC 61701



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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:

### ELECTRICAL SPECIFICATION

Product Type	MSExxxSX5T (xxx=P <sub>max</sub> )					
Power Output	P <sub>max</sub>	W <sub>p</sub>	330	335	340	345
Module Efficiency		%	17.9	18.2	18.5	18.7
Tolerance		%	0/+3	0/+3	0/+3	0/+3
Short Circuit Current	I <sub>sc</sub>	V	10.72	10.78	10.86	10.92
Open Circuit Voltage	V <sub>oc</sub>	A	40.40	40.58	40.82	41.00
Rated Current	I <sub>mp</sub>	V	10.05	10.14	10.24	10.34
Rated Voltage	V <sub>mp</sub>	V	32.85	33.03	33.20	33.37
Fuse Rating		A	20	20	20	20
System Voltage		V	1000	1000	1000	1000

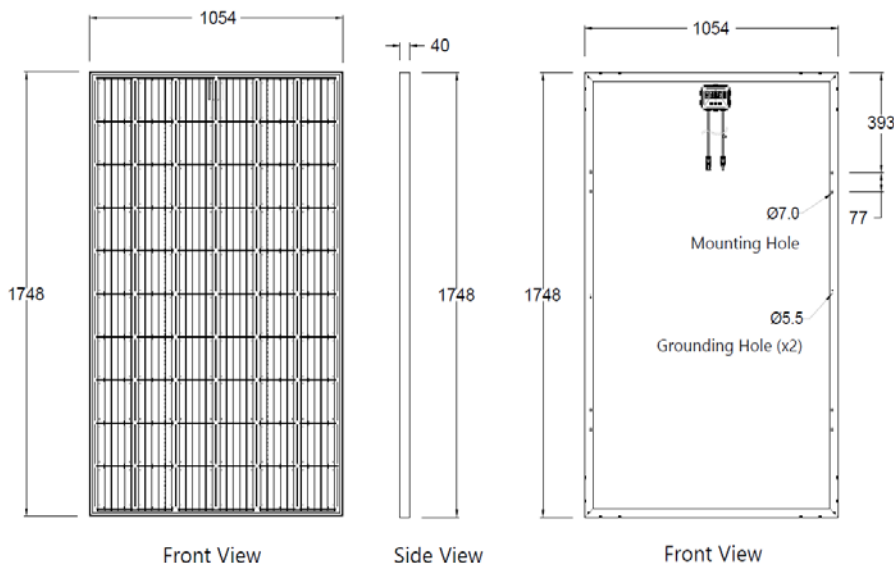
### TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	44.43°C (±3.7%)
Temperature Coefficient of P <sub>max</sub>	-0.361%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.262%/°C
Temperature Coefficient of I <sub>sc</sub>	0.039%/°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

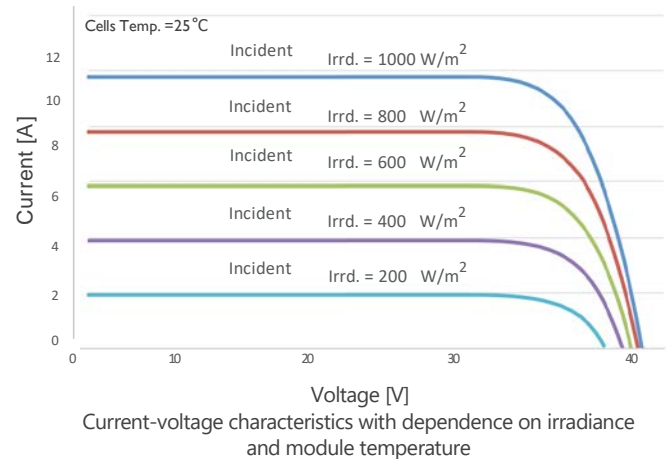
### BASIC DIMENSIONS (UNITS: mm)



### 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 4mm <sup>2</sup> (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8

### MSE345SX5T: 345WP, 60 CELL SOLAR MODULE CURRENT - VOLTAGE CURVE



Current-voltage characteristics with dependence on irradiance and module temperature

### CERTIFICATIONS & TESTS

IEC	61215, 61730, 61701
UL	61730



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### SHIPPING INFORMATION

Container FT	Ship To	Pallet	Panels	345 W Bin
53'	Most states	34	884	304.98 kW
Double Stack	California	28	728	251.16 kW
Pallet [26 Panels]				
Weight	Height	Width	Length	
1263 lbs. (573 kg)	47.5 in (120.65 cm)	46 in (116.84 cm)	70.25 in (178.43 cm)	