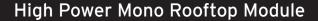
MSE Mono 60







Class Leading Output: 280W power



Advanced P-Type monocrystalline cell technology



Superior Aesthetics: All-black design coupled with outstanding power output



Certified Reliability: 3X IEC, salt mist, ammonia



5600 Pa snow load **New!** 175 mph wind rating



Buy American Act

Proudly assembled in the USA

Mission Solar Energy is headquartered in San Antonio, TX with module facilities onsite. Our hardworking team calls Texas home and is devoted to producing high quality solar products and services. Our supply chain includes local and domestic vendors increasing our impact to the U.S. economy.



CERTIFICATIONS

IEC 61215/ IEC 61730/ IEC 61701 UL 1703







*As there are different certification requirements in different markets, please contact your local Mission Solar Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.



Superior Aesthetics

The MSE Mono 60's slick all-black design coupled with outstanding power output makes it ideal for DG installations including commercial and rooftop systems.

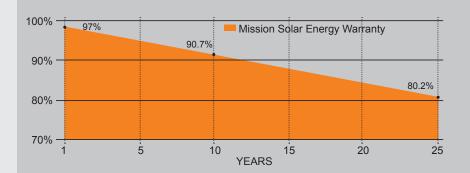
Proven reliability and bankability

Mission Solar Energy panels have been tested by independent testing centers to meet and exceed IEC standards. Our panels are deployed in projects across North America.

Best in class quality

Mission Solar Energy production lines are fully automated and include multiple quality checks throughout the production process.

25-YEAR LINEAR WARRANTY



ELECTRICAL SPECIFICATIONS

Electrical parameters at Standard Test Condition (STC)

Module Type			MSE270SO5T	MSE275SO5T	MSE280SO5T
Power Output	Pmax	Wp	270	275	280
Module Efficiency		%	16.26	16.55	16.85
Tolerance	olerance			0~+3%	
Short-Circuit Current	lsc	A	9.09	9.17	9.27
Open Circuit Voltage	Voc	V	38.21	38.45	38.60
Rated Current	lmp	A	8.64	8.72	8.79
Rated Voltage	Vmp	V	31.28	31.55	31.87

STC: Irradiance 1000 W/m2, Cell temperature of 25°C, AM 1.5

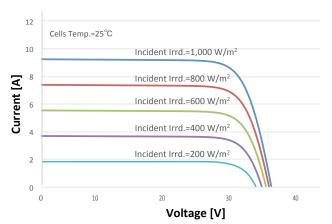
TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.415%/°C
Temperature Coefficient of Voc	-0.312%/°C
Temperature Coefficient of Isc	0.042%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,000VDC
Operating Temperature Range	-40°C (-40°F) to +90°C (194°F)
Maximum Series Fuse Rating	15A
Fire Safety Classification	Type 1, Class C
Front & Back Load (UL standard)	5600 Pa (117 psf) New!
Hail Safety Impact Velocity	25mm at 23 m/s

MSE270SO5T: 270WP, 60CELL SOLAR MODULE CURRENT-VOLTAGE CURVE

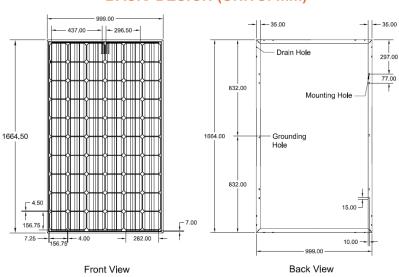


Current-voltage characteristics with dependence on irradiance and module temperature

MECHANICAL DATA

Solar Cells	P-type Mono-crystalline Silicon (156.75mm)		
Cell orientation	60 cells (6x10), 4 busbar		
Module dimension	1664mm x 999mm x 40mm (65.51 in. x 39.33 in. x 1.57 in.)		
Weight	18.2 kg (40.1 lb)		
Front Glass	3.2mm (0.126 in.) tempered, Low-iron, Anti-reflective coating		
Frame	Anodized aluminum alloy		
Encapsulant	Ethylene vinyl acetate (EVA)		
J-Box	Protection class IP67 with 3 bypass-diodes		
Cables	PV wire, 1m (39.37 in.), 4mm² / 12 AWG		
Connector	MC4 or compatible		

BASIC DESIGN (UNITS: mm)





Mission Solar Energy reserves the right to make specification changes without notice.