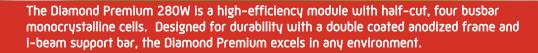
Diamond Premium MLE 280W





Modules are the heart of a PV system.

Why take chances? Mitsubishi Electric, a
diversified global Fortune 500 firm founded
in 1921, manufactures panels that greatly
exceed industry requirements. With 40+
years of PV experience, Mitsubishi has small
and large installations around the globe,
demonstrating the strength and resilience of
the modules in a variety of environments.
Mitsubishi modules, designed for reliability
and durability, are manufactured in our own
factories in Japan. With financial strength
and unparalleled product quality, you can
count on Mitsubishi Electric.

Technological Innovations

The Diamond Premium series of panels features several innovations, including half-cut, four busbar cells, improving efficiency and reducing the potential for micro cracking. Drainage notches also keep panels cleaner and producing more electricity. Thicker frames and an I-beam support bar bolster frame rigidity to protect the cells. The four-layer, potted junction box enhances safety by keeping dust and water out.

Enhanced Reliability

Engineering excellence and attention to the finest detail ensure longevity and optimal performance. Our corrosion-resistant design even allows installation in coastal areas.

Mitsubishi Electric Quality

Our experienced engineers and meticulous manufacturing processes provide the highest quality products possible. Automated production lines ensure consistent high quality in every cell and module, each flash tested to ensure rated level of output. All Mitsubishi Electric modules are manufactured in Japan and made with 100% lead-free solder, a safer and more eco-friendly solution.

FEATURES



Linear performance warranty



Workmanship & materials warranty



Positive power tolerance



Maximum system voltage



Safer for the environment



Excellent low light performance



Accelerated aging test 2000 hours damp heat test 400 thermal cycles Proprietary cell surface texturing process increases light absorption

Half-cut, four bus bar, monocrystalline cells increase module efficiency



Four-layer protective junction box reduces risk of failure from water or dust intrusion, enhancing reliability and safety Beveled frame edge and drainage notches

Double anodized frame for greater corrosion resistance

Solid C-Channel frame





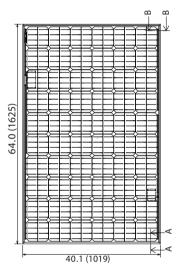
Module Specifications

Model name	PV-MLE280HD2
Cell type	Monocrystalline Silicon,
	78mm x 156 mm
Number of cells	120 cells
Maximum power rating (Pmax)	280 W
Warranted minimum Pmax	280 W
PV USA test condition rating (PTC)	252.1 Wp
Open circuit voltage (Voc)	38.6V
Short circuit current (Isc)	9.37A
Maximum power voltage (Vmp)	32.4V
Maximum power current (Imp)	8.68A
Module efficiency	16.9%
Aperture efficiency	19.5%
Tolerance of maximum power rating	-0/+5%
Weight Static load test passed	5,400 Pa
Number of bus bars per cell	4 Bus bars

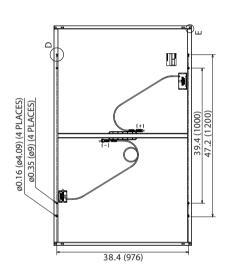
Diamond Premium

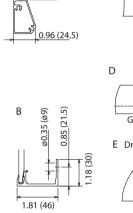
Normal operating cell temperature	46.5°C
(NOCT)	
Maximum system voltage, DC	600V & 1000V (UL), 1000V (IEC)
	, ,, , ,
Fuse rating	15A
Dimensions	64.0 x 40.1 x 1.81 inch
	(1625 x 1019 x 46 mm)
Weight	44 lbs (20kg)
Number of modules per pallet	22
Number of modules per container	616
(40 ft. container)	
Output terminal	(+) 800mm, (-) 1250mm with
	SMK (PV-03) connector
Certifications	UL 1703, IEC 61215 2nd Edition,
	IEC 61730
Fire rating	Type 2, 5, 8
Country of Origin	Made in Japan

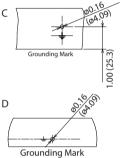
Drawings and Dimensions Unit inch (mm)













Electrical Characteristics

