

Photovoltaics Monocrystalline Modules

Solet 440W DMH3-72

Glass-glass, bifacial



PHOTOVOLTAIC MODULE

ADVANTAGES OF SOLET PHOTOVOLTAICS MODULES

30 years

TECHNICAL
PRODUCT
WARRANTY

20.24%

MAXIMUM
MODULE
EFFICIENCY

85% after 30 years

PRODUCT
PERFORMANCE
WARRANTY



Both sides of the module produce electricity

(Solar modules generate electricity not only from direct sunlight but also from the sun's rays reflected from the earth's surface. Effective use of whole module surface, up to 4,3m²/pc.)



Positive power tolerance

(All modules are tested. We provide only those that have a positive power tolerance which means, that the customer receives solar modules with no less than declared power)



High performance

(Solar cells used in solar modules ensure a high-efficiency rate that goes as high as 20,24%. The selected cells are one of the most advanced ones. Therefore, these modules are unequivocally among the most effective in their category)



Module testing process

(During the manufacturing process modules are being tested at least three times, during every stage of manufacturing, therefore they reach the end customer fully checked, A class, and without any visual or electrotechnical defects)



Half-cut solar cells

(Half-cut solar cell technology ensures a high-efficiency rate)



Resistant to extreme climate conditions

(Modules are certified in TUV Nord laboratory by IEC 61215 and IEC 61730 standards and are resistant to the most severe climate conditions. Modules are not afraid of rain, snow, wind, or hail. They can withstand wind and snow load up to 5400Pa)



85% performance warranty after 30 years

(After 30 years of operation, Solet modules will operate with at least 85% efficiency compared to the original power rate of the solar module.)

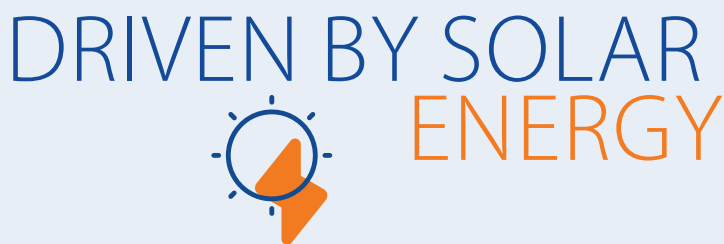


IEC 61215:2017
IEC 61730:2018



ELECTRICAL PARAMETERS *@STC

Type, Nominal Power, Wp	Solet M72.6-440W
Maximum Power* (PMPP)	440 Wp
Maximum Voltage (UMPP)	40.54 V
Maximum Current (IMPP)	10.86 A
Open Circuit Voltage (UOC)	49.09 V
Short Circuit Current (ISC)	11.39 A
Power tolerance	Positive
Efficiency, %	20.24%



Irradiance 1000 W/m²,
temperature of modules 25°C,
spectrum AM 1.5.

MECHANICAL PARAMETERS

Solar cell	Monocrystalline, 166*83mm
Number of cells	144 pcs.
Front side glass	2 pcs. x 2.0 mm
Weight	28.0 kg
Dimensions (LxWxH)	2094x1038x30 mm
J-box	IP68 or with better features
Cable length	290 mm or 145 mm
Cable cross-section size	4 mm ²
Number of diodes	3 or 6
Plug-in connection	MC4 or equivalent
Frame	Anodized Al (silver)
Packing Configuration	35 pcs./pallet

Warranty is applicable by UAB Solet limited warranty terms.

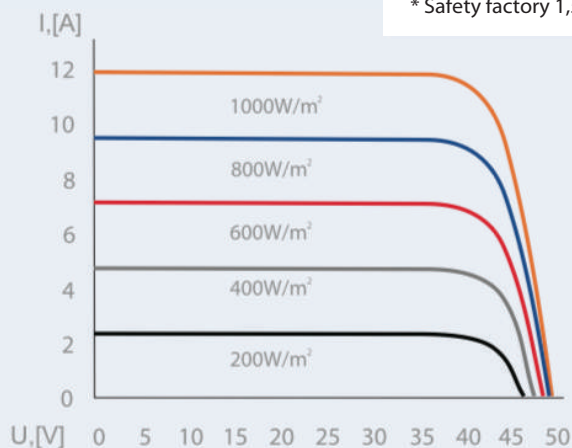
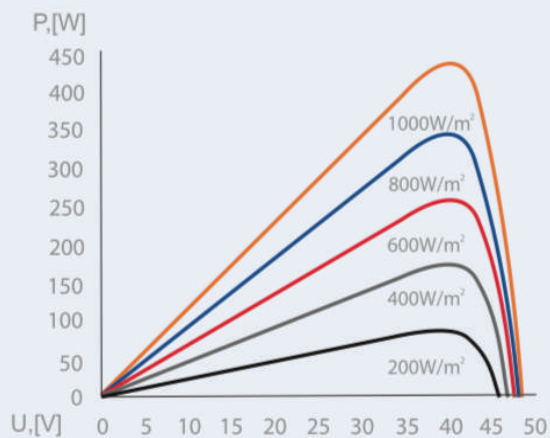
WORKING CONDITIONS

Maximum System Voltage	DC1000 V (TUV)
Operating temperature	-40 °C/+85°C
Maximum reverse current	20A
Max. wind load/max. snow load	5400Pa*
IP protection level	68
Fire safety class	A (TUV)

TEMPERATURE COEFFICIENTS

Voltage temperature coefficient	β	-0.27 %/°C
Current temperature coefficient	α	0.048 %/°C
Power temperature coefficient	δ	-0.35 %/°C

* Safety factory 1,5 is included.



M60_W(B)_300-325_200429v_L_Sol