

MPV-M-Ard 2 - Innovation on 1.43 m² Ideal for Ground Mounted Applications

The attractive, frameless modules, 1.43 m² large, are made up of one amorphous silicon and one micromorph silicon layer. The micromorph tandem layer absorbs a particularly broad spectrum of light, which leads to excellent energy production even during diffuse or low light conditions. These modules are particularly well suited for use in ground mounted solar parks.



Reliability, Warranty and Safety

- High reliability certified according to IEC 61646:2008, IEC 61730-1:2007 and IEC 61730-2:2007
- "Made in EU" certificate
- Product warranty of 10 years on material and workmanship
- Performance guarantee:
 - 10 years (90 % of minimum stabilized rated power output)
 - 25 years (80 % of minimum stabilized rated power output)
- Fully recyclable due to PV-Cycle membership

About Masdar PV GmbH

Masdar PV GmbH develops and produces innovative thinfilm solar products and solutions. Part of the Masdar Power business unit, Masdar PV GmbH is a 100% subsidiary of Masdar, Abu Dhabi's multifaceted initiative for innovative technologies, launched and owned by the Mubadala Development Company.







CE



Excellent energy output even during diffuse or low light conditions

SUPERIOR YIELD

Higher yields than crystalline modules in hot climates due to better temperature coefficient

SAFE

Financially powerful investor ensures continued existence

QUALITY GUARANTEED 10-year product warranty

25-year performance guarantee*

CERTIFIED

Certified high-tech module, "Made in Germany", guaranteeing high quality products

TESTED

Independent tests confirm mechanical stability of the modules even under conditions of high wind and snow loads

POSITIVE SORTING

Superior specific yields due to positive sorting within power classes

AESTHETIC

Black striped module design meets highest aesthetic expectations

SUSTAINABLE

Short energy payback time due to low process temperatures and careful selection of materials

RECYCLABLE

Manufactured with non-toxic materials

*80 % of minimum stabilised rated power output

www.masdarpv.com DA_OTLGPS_MQSP_EN_2.0



a-Si/µc-Si Thin-Film PV Module

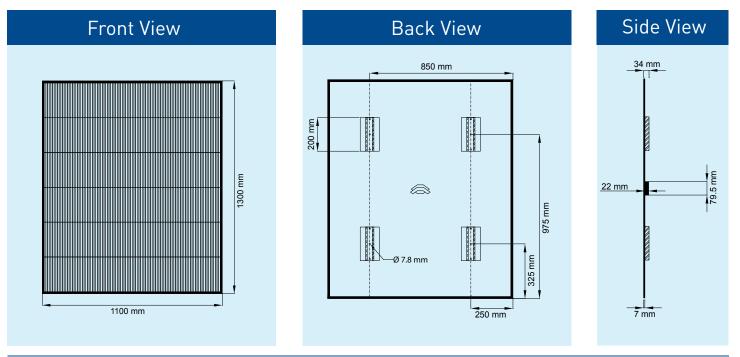
Parameter	Unit	MPV120-M	MPV125-M	MPV130-M	MPV135-M	MPV140-M
Nominal peak power (P _{mpp})	W	120	125	130	135	140
Nominal voltage (V _{mpp})	V	111.2	112.6	110.7	111.8	113
Nominal current (I _{mpp})	А	1.08	1.11	1.18	1.21	1.24
Open circuit voltage (V _{oc})	V	142.4	143.6	140.4	142.2	143.9
Short circuit current (I _{sc})	А	1.26	1.30	1.39	1.41	1.43
Maximum system voltage (V _{max})	V			1000		
Maximum reverse current (I _R)	А			3		
Bypass diode current (I _B)	А			10		
Temperature coefficient (P _{mpp})	%/K			-0.27		
Temperature coefficient (V_{oc})	%/K			-0.37		
Temperature coefficient (I _{sc})	%/K			0.1		
Length	mm			1300		
Width	mm			1100		
Area	m²			1.43		
Thickness of module (incl. backrails)	mm			7 (34)		
Weight	kg			26		
Operating temperature range	°C			-40 to +85		
Negative groupding required		Standard test conditions (STC) = 1000 W/m ² 25°C AM 1 5				

Negative grounding required

Standard test conditions (STC) = 1000 W/m^2 , 25° C, AM 1.5

Dimensions

The drawings are not drawn to scale! For valid measurements, please refer to the installation guide!



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