



PHOTOVOLTAIC MODULE

MP Series

German quality standards

All WIOSUN® photovoltaic modules are subject to our strict quality standards. To ensure this, we continually monitor all manufacturers and suppliers worldwide that deliver products to WIOSUN®. All of our 25 year know-how together with selected individual components in premium quality have gone into them. These modules are also particularly suitable for use in hot regions due to their high degree of laminated membrane integration.

Suitable for every weather condition

The newly developed and strengthened 35 millimeter hollow chamber frame gives our modules extremely high stability - in all weather conditions.

10 year warranty on our products

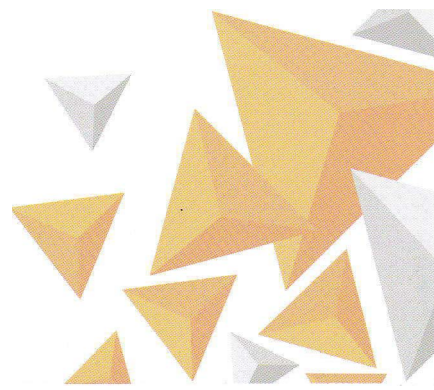
With the 10 year product warranty on the WIOSUN® module series, as well as a 25 year performance guarantee, WIOSUN® photovoltaic modules are among the most reliably calculable components for efficient PV systems.

Certificates

IEC 61215, IEC 61730 (Ongoing)
 ISO 9001:2015
 Jordan Quality Mark



Added Value - Linear performance warranty from WIOSUN



General

Cells	72 (perc 5BB) monocrystalline	Cell size	158.75 x 158.75mm
Frame	Anodized Aluminum	Front glass	3.2 mm Solar ARC glass
Connection	Plastics, IP65, 3 bypass-diodes	Cable	4 mm ² Solar Cable, 1200 mm length
Connector	MC4 or TYCO-Electronics PV4-S		

Electrical Data (STC*)

MODULE TYPE			MP390	MP 395	MP 400
Nominal Power	P _{MPP}	Wp	390	395	400
MPP-Voltage	U _{MPP}	V	40.21	40.48	40.78
MPP-Current	I _{MPP}	A	9.70	9.76	9.81
Open-circuit voltage	U _{OC}	V	49.00	49.20	49.70
Short-circuit current	I _{SC}	A	10.30	10.32	10.34
Module efficiency	η%		19.60	19.85	20.10

Temperature coefficients

Current temperature coefficient	+ 0.0465 %/°C
Voltage temperature coefficient	- 0.2837 %/°C
Power temperature coefficient	- 0.3740 %/°C
NMOT	42.3°C ± 2 °C

Limits

System voltage max.	1500V
Reverse current max.	16 A
Operating temperature	- 40 °C ~ 85 °C
Maximum load	5400 Pa/m ² = 550 kg/m ² (75 lbs/ft ²)
Safety class	II

Warranty

Product warranty	10 years
Performance warranty	linear 25 years

Mechanical Data

Dimensions	1986 x 1002 x 40 mm ± 1 mm
Weight	22.5 kg 49.6lbs

Packing configuration

Modules/Cardboard	27
Modules/Container(20')	135
Modules/Container(40')	594
Pallet dimensions	205 x 116 x 120cm (LxWxH)

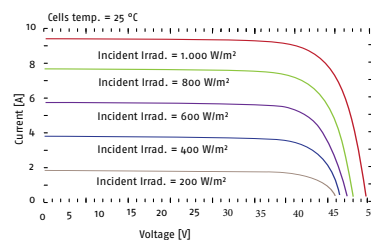
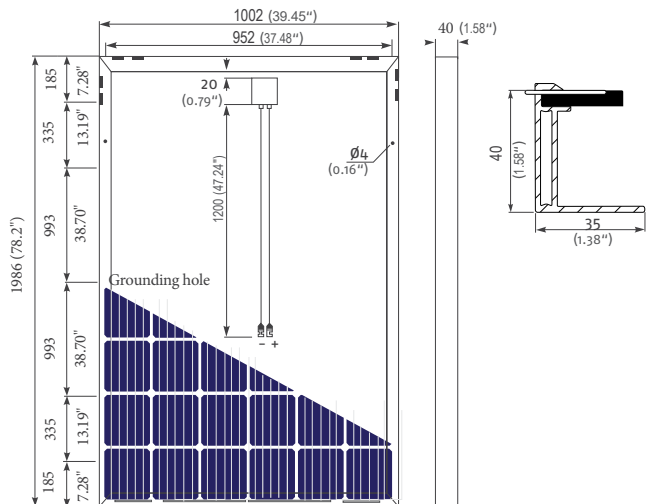
All figures are according to DIN EN 50380.

At a low irradiation intensity of 200 W/m² (Am 1.5, cell temperature 25 °C) 96 % of the STC module efficiency will be archived.

* Standard Test conditions (1000W/m², Am 1.5, cell temperature 25°C), Measurement tolerance ±3% .

** Nominal Module Operating Temperature (800 W/m², Am 1.5, wind speed 1 m/s, ambient temperature 25 °C).

Technical drawing



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