



 MAGE
POWERTEC[®] PLUS PHOTOVOLTAIC MODULES



THE RIGHT PHOTOVOLTAIC SOLUTION FOR ANY AREA



FOUR ARGUMENTS FOR YOUR SUCCESS

MAGE SOLAR AG, part of a globally active holding company, is your preferred partner for all solar power projects, from roof systems for family homes through to industrial hall and roof areas as well as open spaces. The MAGE POWERTEC® PLUS modules with poly- and monocrystalline cell technology are of the highest quality and amongst the best and most powerful in the industry.

As a full-service provider with experience and know-how in the field of photovoltaic modules, MAGE SOLAR® can offer the right solution for every need. Your project will receive individual attention – from advice, through planning and right down to the delivery. You benefit from fully developed system solutions that are perfectly matched and meet the highest quality standards.

Take advantage of the MAGE POWERTEC® PLUS modules and benefit from flexible planning, simple installation, maximum yield and a long lifetime.

1. Flexible Planning



2. Easy Installation



3. Maximum Yield

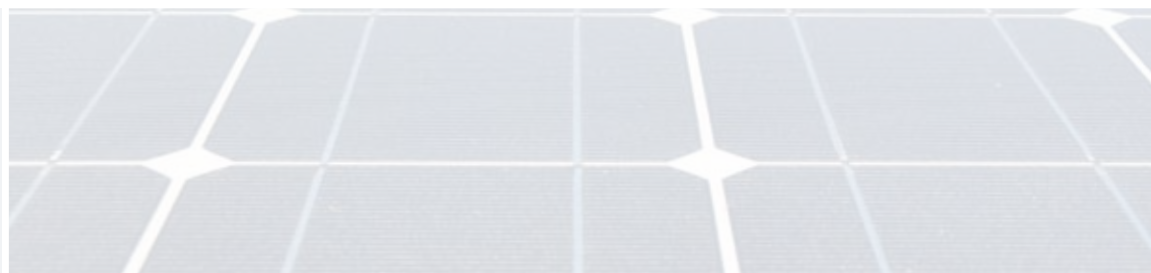
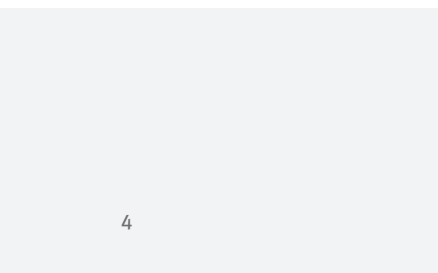


4. Long Lifetime





AT HOME ON THE WORLD'S ROOFS



1. FLEXIBLE PLANNING

One brand – numerous applications

MAGE POWERTEC® PLUS modules come with two effective cell technologies. Both the mono- and polycrystalline photovoltaic modules are characterised by a high efficiency. The different sizes of the MAGE POWERTEC® PLUS modules ensure that the system area is always put to optimum use, which increases the flexibility of your planning and guarantees a high level of performance in all fields.

The brand modules offer the right solution, even for extreme site conditions. They have a certified resistance to ammonia as well as a tested resistance to salt corrosion. This means that they can be used almost anywhere and you can install MAGE POWERTEC® PLUS modules in coastal and agricultural areas without hesitation.

MAGE SOLAR® can offer aesthetic system components with its series of black modules for more discerning architecture, combining sustainability and modern design.



*5.76 kWp with MAGE POWERTEC® PLUS modules
Waasmunster, Belgium*



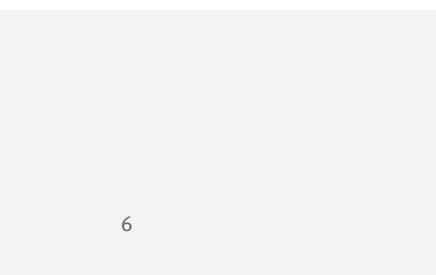
*37.4 kWp with MAGE POWERTEC® PLUS modules
Lünne, Germany*



*910.1 kWp with MAGE POWERTEC® PLUS modules
Pennsauken, USA*



A POWER PACKAGE WITH STYLE



2. EASY INSTALLATION

Easy handling for faster work

The popular sizes of the MAGE POWERTEC[®] PLUS modules and their low weight make installation easy and all work very efficient. Individual and flexible planning in the preliminary stages allows an uncomplicated realisation on site. The photovoltaic modules can therefore be used for rooftop solutions, open spaces, flat and foil roofs as well as facade and in-roof solutions.

MAGE POWERTEC[®] PLUS modules can be installed by clamping on either the short or long side allowing horizontal or vertical layouts. The clamping points are always in the upper and lower quarter of the sides of the frame and guarantee a safe, simple and fast fitting of the photovoltaic modules. The roof area can be put to optimum use thanks to the flexible arrangement of the MAGE POWERTEC[®] PLUS modules.

The installation of MAGE POWERTEC[®] PLUS modules in conjunction with our MAGE SAFETEC[®] assembly system means a further simplification. This combination requires only a single tool for the assembly of the profile rails and module clamps, thus saving working time.



The MAGE POWERTEC[®] PLUS modules can be clamped on both the short or long side



Only one tool is needed to fit the MAGE POWERTEC[®] PLUS modules



"My photovoltaic system with MAGE POWERTEC® PLUS modules generates above-average returns year in, year out thanks to the guaranteed 5 watts plus tolerance. This has been confirmed by an independent measurement by SolarPowerTeam GbR. I can therefore be sure of a profitable return on investment. On the basis of this convincing result I can highly recommend MAGE POWERTEC® PLUS modules as a building energy consultant."

Andreas Wenzler, 26,88 kWp with MAGE POWERTEC® PLUS modules, Laimnau

THE LATEST TECHNOLOGY FOR MAXIMUM BENEFITS

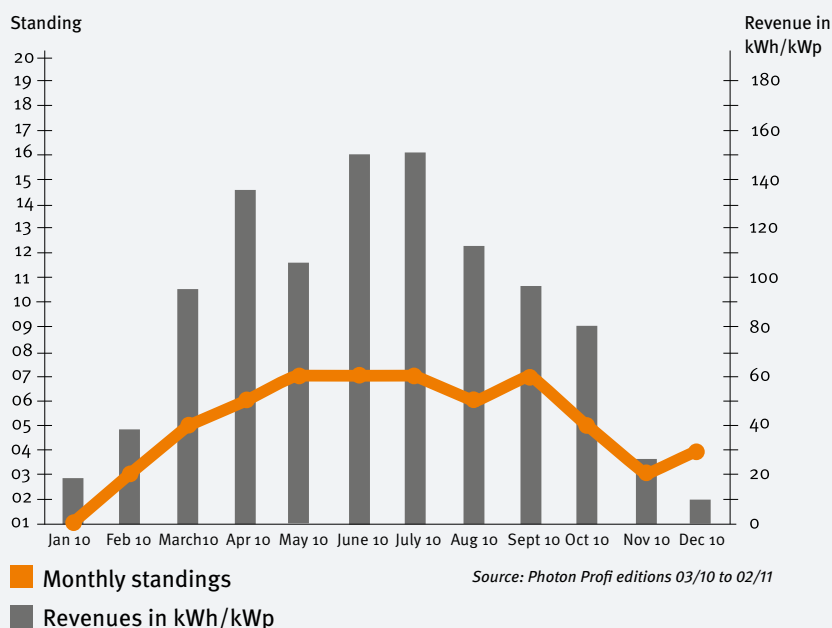
3. MAXIMUM YIELD

Performance through high efficiency factors

The exclusively positive tolerances of up to +5 watts guarantee top performance from your MAGE POWERTEC® PLUS modules. The nominal output is achieved or even exceeded in every case. These photovoltaic modules ensure maximum returns. To ensure that you always benefit from the latest technologies and best possible module efficiency, MAGE SOLAR® permanently invests in the further development of ideally matched components. MAGE SOLAR® guarantees that the MAGE POWERTEC® PLUS modules will still provide at least 80% of their nominal output in 30 years time. This is considerably higher than the normal warranty period in the industry of 25 years. For system operators this means five years more and thus higher returns.

The performance of MAGE POWERTEC® PLUS modules has also been confirmed by the 2010 revenue test of the trade journal "Photon". Apart from the good results all year round, the revenues in the months with fewer hours of sunshine were particularly convincing. Above-average test results were achieved in this period, which means constantly high revenues, something that has been confirmed by our customers too.

Results for MAGE POWERTEC® PLUS in the PHOTON 2010 revenue test 2010



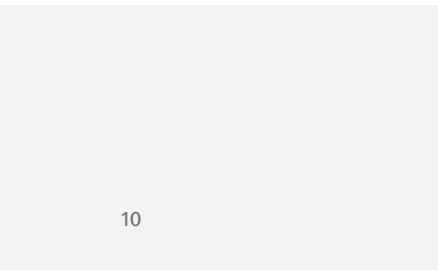
The revenue test shows that MAGE POWERTEC® PLUS modules are always amongst the leaders throughout the year.

All crystalline modules installed up until 1 January 2010 have been taken into account in the test analysis.

In 2010, a specific annual revenue of 1,019 kWh/kWp was generated at the Aachen site.



UNCOMPROMISING BRAND QUALITY



4. LONG LIFETIME

Quality verification and certification

Certification according to the most stringent German and international standards, as well as additional functional and efficiency controls during the entire production process guarantee the highest uncompromising brand quality. The MAGE POWERTEC® PLUS modules are manufactured in the latest production plants under clean room conditions. Each of our photovoltaic modules passes through several strict quality tests before delivery: optical, mechanical and electrical.

MAGE POWERTEC® PLUS modules can therefore withstand even the harshest weather conditions for years. All of our photovoltaic modules have been tested to a maximum pressure load of 5,400 Pa. This roughly corresponds to ten metres of fresh powder snow on the surface area of a module. They can even be operated continuously and without hesitation in the highest wind load zone 4 as specified in DIN 1055.

Environmental influences through a proximity to the sea, or if used in agriculture, do not affect the efficiency of MAGE POWERTEC® PLUS modules. This is why MAGE SOLAR® grants a 10 year product warranty on its brand name modules. The guaranteed output after 12 years is still 90% of the nominal output and 80% after 30 years. This puts MAGE SOLAR AG, a company based in Germany, amongst the world leaders in the photovoltaic industry.



"The precise calibration of photovoltaic modules plays an important role. This is indispensable for the module manufacturer, investors and operators of photovoltaic systems. The CallLab PV Modules of the Fraunhofer Institute of Solar Energy Systems ISE has ranked amongst the world's leading test laboratories since 1986 with its measurement services. MAGE SOLAR AG also makes regular use of this service to have the performance of its MAGE POWERTEC® PLUS modules tested in the CallLab PV Modules according to national and international standards."

Frank Neuberger, Head of CallLab PV Modules, Freiburg



IEC 61215, IEC 61730, IEC 61701, UL 1703, ISO 9001, ISO 14001



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