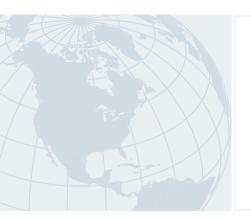


PHOTOVOLTAIC MODULES MAGE POWERTEC® PLUS 220 - 230 / 6 PF



Number of Cells: 60 Solar Cell Type: polycrystalline Power class: 220 - 230 Wp Cell Efficiency: 16.50 %





More Power

MAGE POWERTEC® PLUS modules use a polycrystalline cell technology with a module efficiency of up to 14.36%.

Allowable tolerances of up to +5 watts guarantee maximum power without compromise. The nominal power is always obtained or even exceeded.

More Quality

The 10-year product warranty far surpasses legal requirements. MAGE POWERTEC® PLUS modules go far beyond competitors' standards with the added guarantee that they'll produce 90% of their nominal power for 12 years and 80% for 30 years. That is three full decades of reassurance.

Certifications according to the most rigorous North American and international standards guarantee maximum quality.

In addition, every MAGE POWERTEC® PLUS module passes rigorous optical, mechanical, and electrical quality controls.

More Security

Due to their engineered hollow section frame and 3.2 mm (0.13 in) special solar glass, MAGE POWERTEC® PLUS modules meet maximum demands with regard to stability and corrosion resistance. The high-quality EVA foil allows ideal embedding of the solar cells, while the weatherproof foil on the back of the modules protects against humidity.

To avoid overheating of the individual solar cells (hot-spot effect), a junction box with bypass diodes is placed on the back of the module. In addition, the extremely robust modules resist a maximum pressure of 5,400 Pa/113 psf.



10 YEAR PRODUCT-WARRANTY

YEAR
POWER
GUARANTEE 90%

30

YEAR
POWER
GUARANTEE 80%

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PHOTOVOLTAIC MODULES MAGE POWERTEC® PLUS 220 - 230 / 6 PF

Electrical Characteristics*		220 / 6 PF	225 / 6 PF	230 / 6 PF
Maximum Power Rating	P _{max} [Wp]	220	225	230
Tolerance of P _{max}	P [Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage of P _{max}	U_{mpp} [V]	29.50	29.50	30.00
Maximum Power Current P _{max}	I_{mpp} [A]	7.46	7.63	7.67
Short Circuit Current	I _{SC} [A]	8.36	8.55	8.59
Open Circuit Voltage	U_{oc} [V]	35.40	35.40	36.00
Maximum System Voltage	[V]	600	600	600

^{*} STC @ 25° C, 1000 W/m², AM 1.5

Efficiency	220 / 6 PF	225 / 6 PF	230 / 6 PF
Cell [%]	15.85	16.00	16.50
Module [%]	13.75	14.05	14.36

Technical Facts	220 - 230 / 6 PF
Number of Cells (Matrix)	60 (6 x 10)
Solar Cell Type	polycrystalline
Solar Cell Size (mm)	156 x 156
Solar Cell Size (in)	6 x 6
Dimensions [L x W x D mm]	1650 x 992 x 50
Dimensions [L x W x D in]	64.96 x 39.06 x 1.97
Weight [kg]	19.5
Weight [lbs]	43

Thermal Characteristics 220 - 230 / 6 PF		
NOCT	[°C]	+ 50 +/- 2
Temperature Coefficient	I_{SC} [% / K]	+ 0.045
Temperature Coefficient	U _{oc} [% / K]	- 0.34
Temperature Coefficient	P_{max} [% / K]	- 0.44



