PHOTOVOLTAIC MODULES
MAGE POWERTEC® PLUS 225–235/6 PE

Number of Cells: 60
Solar Cell Type: polycrystalline
Power classes: 225–235 Wp
Module Efficiency: 14.60 %

MAGE POWERTEC® PLUS

More Power

MAGE POWERTEC® PLUS modules utilize a polycrystalline cell technology with an electrical efficiency of up to 16.55 %.

More quality

The 10 year product guarantee by far surpasses government requirements. MAGE POWERTEC® PLUS modules have a 30 year power guarantee – after 12 years the modules still produce 90 % of their nominal power, after 30 years 80 %.

More security

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

+5 WATTS POSITIVE TOLERANCES	10 YEAR PRODUCT-GUARANTEE	12 YEAR POWER GUARANTEE 90%	30 YEAR POWER GUARANTEE 80%

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PHOTOVOLTAIC MODULES
MAGE POWERTEC® PLUS 225/6 PE, 230/6 PE, 235/6 PE

Electrical Characteristics*		225/6 PE	230/6 PE	235/6 PE
Maximum Power Rating	P_{max} [Wp]	225	230	235
Tolerance of P_{max}	P [Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage of P_{max}	U_{mpp} [V]	29.85	30.15	30.35
Maximum Power Current P_{max}	I_{mpp} [A]	7.55	7.64	7.75
Short Circuit Current	I_{SC} [A]	8.15	8.25	8.37
Open Circuit Voltage	U_{OC} [V]	35.50	35.80	36.00
Maximum System Voltage	[V]	1000	1000	1000
Back current load	I_R [A]	15	15	15

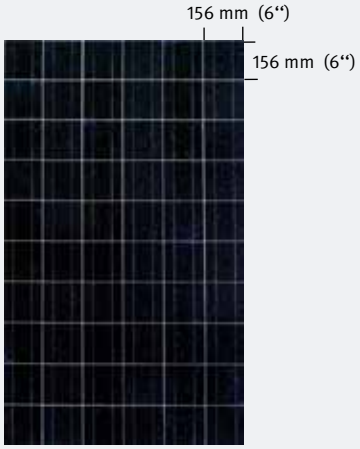
* STC @ 25° C, 1000 W/m², AM 1.5

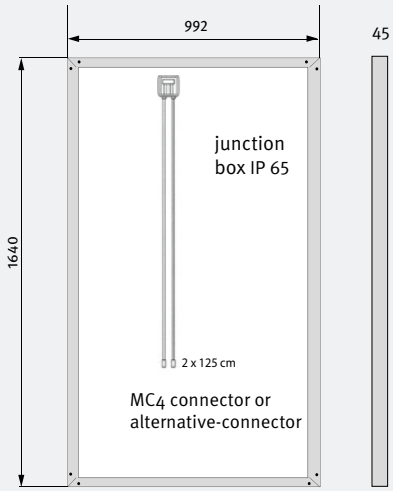
Technical Facts	225/230/235 6 PE
Number of Cells (Matrix)	60 (6 x 10)
Solar Cell Type	polycrystalline
Cell type	Silicon
Dimensions [L x W x D mm]	1640 x 992 x 45
Weight [kg]	19.5
Mechanical load [Pa]	5400

Efficiency		225/6 PE	230/6 PE	235/6 PE
Cell [%]		15.85	16.20	16.55
Module [%]		13.98	14.29	14.60

Smaller output reduction under part load conditions at 25° C: a smaller efficiency reduction is generated at 200 W/m² irradiation, whereby 95 % (+/- 3 %) of the STC efficiency is reached.

Thermal Characteristics 225 / 230 / 235 6 PE		
NOCT	[°C]	+ 45 +/- 2
Temperature Coefficient	I_{SC} [%/K]	+ 0.06
Temperature Coefficient	U_{OC} [%/K]	- 0.46
Temperature Coefficient	P_{max} [%/K]	- 0.55





IEC 61215, IEC 61730, ISO 9001