

Photovoltaic modules

MAGE POWERTEC PLUS 250–265 POLY CLASSIC



MAGE POWERTEC PLUS convinces by:

1. Flexible Planning

- › Modules for all installation sizes
- › Maximum efficiency
- › Suitable for use in extreme site conditions

2. Easy Installation

- › Low weight, convenient format
- › Horizontal and vertical installation possible
- › Optimal utilisation of the roof surface

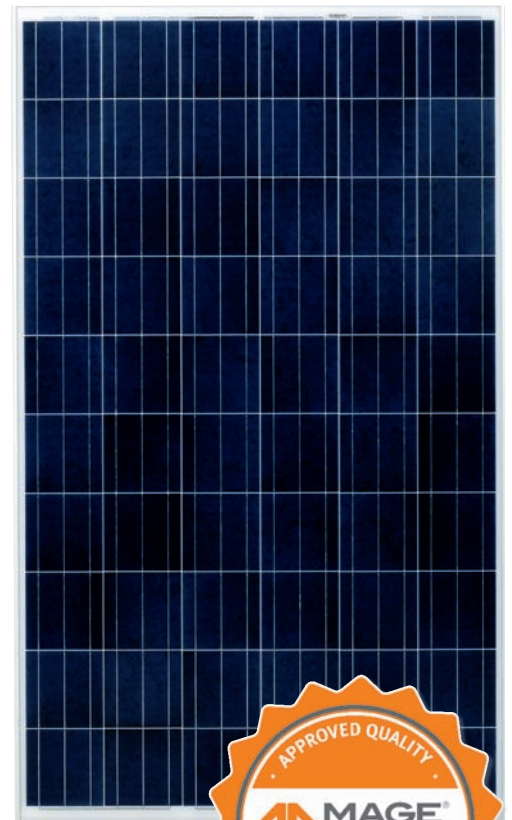
3. Maximum Yield

- › Only positive tolerances of up to 5 Wp
- › Only the best performance

4. Long Lifetime

- › Product warranty: 10 years*
- › Performance guarantee: 25 years linear at 80%*
- › Certified according to the strictest German and international standards

* according to our warranty conditions valid at the time of purchase, available from your MAGE SOLAR qualified partner or from MAGE SOLAR GmbH.



+5

WATTS
POSITIVE
TOLERANCE

10

YEAR
PRODUCT
WARRANTY*

25

YEAR
LINEAR PERFORMANCE
GUARANTEE 80%*

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Electrical characteristics at STC*		250	255	260	265
Nominal power	P_{nom} [Wp]	250	255	260	265
Tolerance of P_{nom}	P [Wp]	-0/+5	-0/+5	-0/+5	-0/+5
Voltage at P_{nom}	U_{nom} [V]	30.5	30.6	30.7	30.8
Current at P_{nom}	I_{nom} [A]	8.2	8.34	8.48	8.61
Short circuit current	I_{SC} [A]	8.57	8.71	8.85	8.98
Open circuit voltage	U_{OC} [V]	37.9	38.0	38.10	38.20
Maximum system voltage	U_{syst} [V]	1000	1000	1000	1000
Reverse current	I_R [A]	15	15	15	15

* Typical parameters at standard test conditions (STC): 1,000 W/m² irradiation on the module surface, 25°C module temperature, 1.5 AM spectral diffusion of irradiation simulating Air-Mass.

Electrical characteristics at NOCT**		250	255	260	265
Nominal power	P_{noct} [Wp]	180.72	184.40	188.11	191.62
Voltage at P_{noct}	U_{noct} [V]	27.70	27.79	27.88	27.97
Current at P_{noct}	I_{noct} [A]	6.52	6.63	6.74	6.85
Short circuit current	I_{SC} [A]	6.54	6.65	6.76	6.87
Open circuit voltage	U_{OC} [V]	34.16	34.25	34.34	34.43

** Typical parameters at nominal operating cell temperature (NOCT): 800 W/m² irradiation, 20°C ambient temperature, 1 m/s wind speed.

Efficiency		250	255	260	265
Cell efficiency up to [%]		17.46	17.80	18.14	18.48
Module efficiency up to [%]		15.92	16.24	16.55	16.86

Minimal efficiency reduction in low irradiation at 25°C: at 200 W/m² irradiation a minimal efficiency reductions occurs, this leads to a functionality of 96% of the STC efficiency.

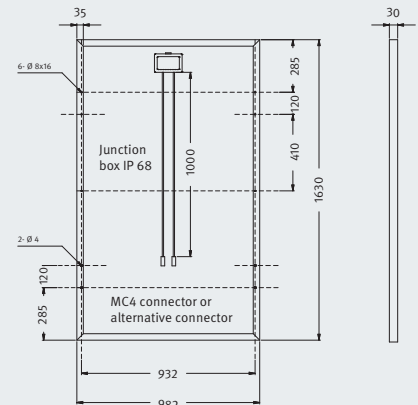
Technical characteristics***	
Number of cells (Matrix)	60 (6 x 10)
Solar cell type	Polycrystalline silicon, 156 x 156 mm, 6"
Front cover	2.8 mm solar glass
Frame material	Aluminium
Dimensions [L x W x D]	Refer to drawing
Weight up to	17.2 kg
Maximum mechanical load	5400 Pa
Number of bypass diodes	3

*** Typical technical specifications

Thermal characteristics		
NOCT	[°C]	+46 +/-2
Temperature coefficient	I_{SC} [%/K]	0.04
Temperature coefficient	U_{OC} [%/K]	-0.33
Temperature coefficient	P_{nom} [%/K]	-0.37

This data sheet conforms to standard EN 50380. All information subject to measurement inaccuracies (up to a maximum of three per cent depending on the parameter). Availability of the following product groups will be examined in the order: MAGE POWERTEC PLUS 250–265.

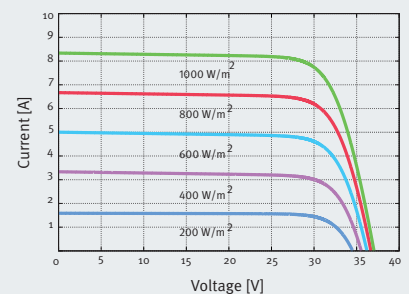
Example: MAGE POWERTEC PLUS



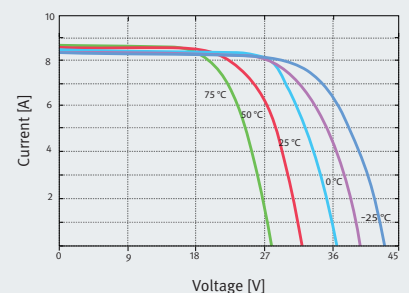
1630 x 982 x 30

All lengths in mm

Drawings on request



Module characteristics at constant module temperatures (25°C) and differing levels of irradiance



Module characteristics at different temperatures and constant module irradiance (1,000 W/m²)



IEC 61215, IEC 61730, ISO 9001

Dependent on market and/or product

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