



## PHOTOVOLTAIC MODULES MAGE POWERTEC® PLUS 245–250/5 MJ



Number of Cells: 96  
Solar Cell Type: monocrystalline  
Power class: 245–250 Wp  
Module Efficiency: 14.95 %



### MAGE POWERTEC® PLUS

#### More Power

MAGE POWERTEC® PLUS modules utilize a monocrystalline cell technology with an electrical efficiency of up to 17.50%.

#### 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%



## PHOTOVOLTAIC MODULES

### MAGE POWERTEC® PLUS 245/5 MJ, 250/5 MJ

Electrical Characteristics*		245/5 MJ	250/5 MJ
Maximum Power Rating	$P_{max}$ [Wp]	245	250
Tolerance of $P_{max}$	$P$ [Wp]	-0/+5	-0/+5
Maximum Power Voltage of $P_{max}$	$U_{mpp}$ [V]	50.50	51.04
Maximum Power Current $P_{max}$	$I_{mpp}$ [A]	4.86	4.90
Short Circuit Current	$I_{sc}$ [A]	5.35	5.40
Open Circuit Voltage	$U_{oc}$ [V]	61.10	61.70
Maximum System Voltage	[V]	1000	1000
Back current load	$I_r$ [A]	13	13

\* STC @ 25° C, 1000 W/m<sup>2</sup>, AM 1.5

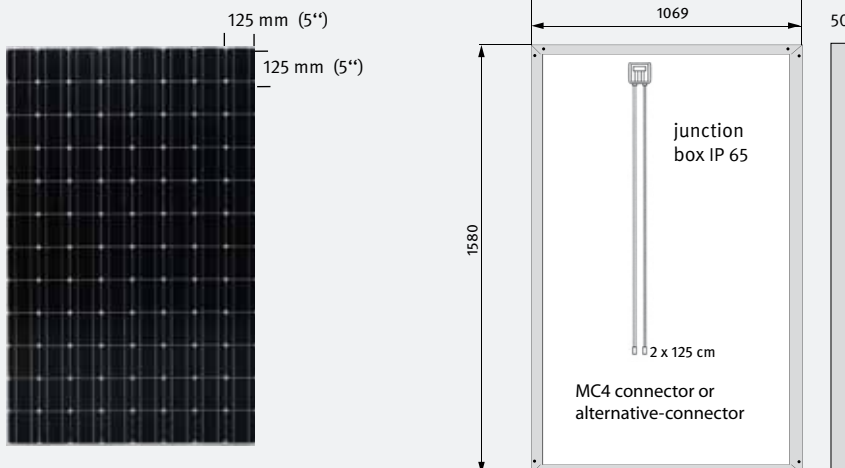
Efficiency	245/5 MJ	250/5 MJ
Cell [%]	17.20	17.50
Module [%]	14.65	14.95

Smaller output reduction under part load conditions at 25° C: a smaller efficiency reduction is generated at 200 W/m<sup>2</sup> irradiation, whereby 95 % (+/- 3 %) of the STC efficiency is reached.

Technical Facts	245/250 5 MJ
Number of Cells (Matrix)	96 (8 x 12)
Solar Cell Type	monocrystalline
cell type	silicon
Dimensions [L x W x D mm]	1580 x 1069 x 50
Weight [kg]	21.0
Mechanical load [Pa]	5400

#### Thermal Characteristics 245/250 5 MJ

NOCT	[°C]	+ 47 +/- 2
Temperature Coefficient	$I_{sc}$ [%/K]	+ 0.028
Temperature Coefficient	$U_{oc}$ [%/K]	- 0.347
Temperature Coefficient	$P_{max}$ [%/K]	- 0.50



IEC 61215, IEC 61730, ISO 9001