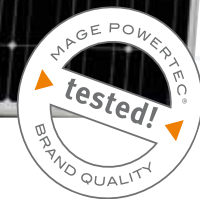
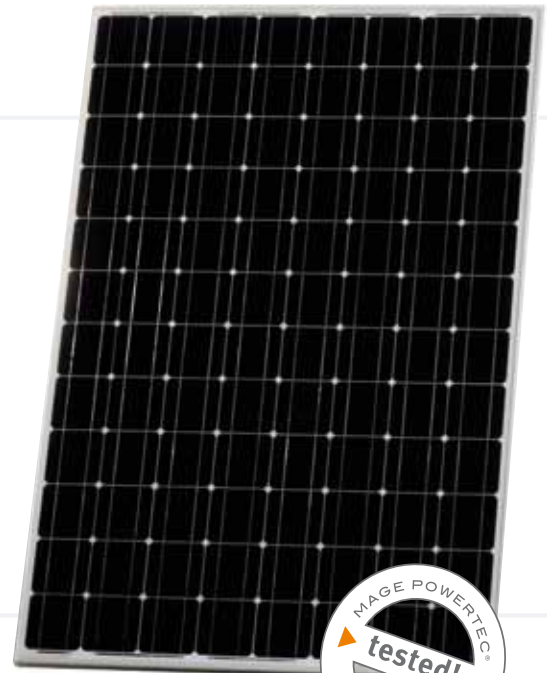


## PHOTOVOLTAIC MODULES

### MAGE POWERTEC® PLUS 245–255/5 MR



Number of Cells: 96  
 Solar Cell Type: monocrystalline  
 Power class: 245–255 Wp  
 Module Efficiency: 15.25 %



## MAGE POWERTEC® PLUS

### More Power

MAGE POWERTEC® PLUS modules utilize a monocrystalline cell technology with an electrical efficiency of up to 17.80 %.

### 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 3.2mm 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 MR, 250/5 MR, 255/5 MR

Electrical Characteristics*		245/5 MR	250/5 MR	255/5 MR
Maximum Power Rating	$P_{max}$ [Wp]	245	250	255
Tolerance of $P_{max}$	$P$ [Wp]	-0/+5	-0/+5	-0/+5
Maximum Power Voltage of $P_{max}$	$U_{mpp}$ [V]	50.50	51.25	51.35
Maximum Power Current $P_{max}$	$I_{mpp}$ [A]	4.86	4.88	4.97
Short Circuit Current	$I_{sc}$ [A]	5.35	5.38	5.40
Open Circuit Voltage	$U_{oc}$ [V]	61.00	61.20	61.30
Maximum System Voltage	[V]	1000	1000	1000
Back current load	$I_r$ [A]	10	10	10

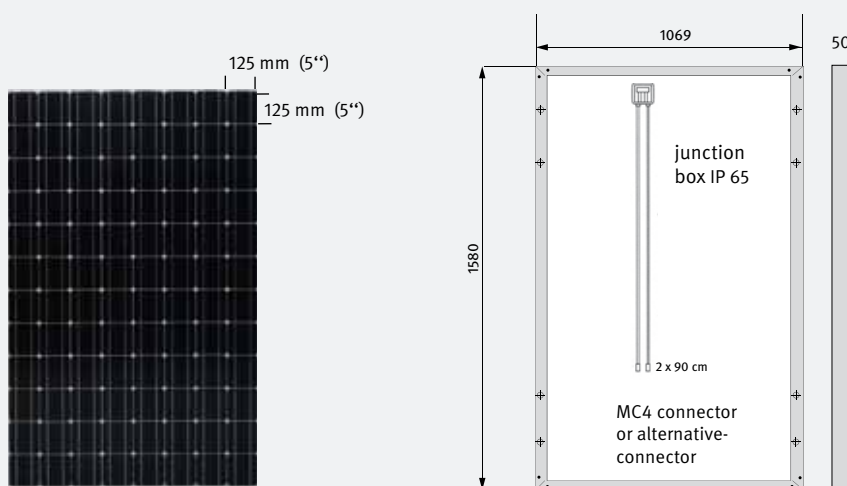
Technical Facts	245/250/255 5 MR
Number of Cells (Matrix)	96 (8 x 12)
Solar Cell Type	monocrystalline
Cell type	Silicon
Dimensions [L x W x D mm]	1580 x 1069 x 50
Weight [kg]	21.0
Mechanical load [Pa]	5400

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

Efficiency	245/5 MR	250/5 MR	255/5 MR
Cell [%]	17.20	17.50	17.80
Module [%]	14.65	14.95	15.25

Thermal Characteristics 245/250/255 5 MR		
NOCT	[°C]	+ 47 +/- 2
Temperature Coefficient	$I_{sc}$ [%/K]	+ 0.055
Temperature Coefficient	$U_{oc}$ [%/K]	- 0.347
Temperature Coefficient	$P_{max}$ [%/K]	- 0.48

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.



IEC 61215, IEC 61730, ISO 9001