

# AE POWERPLUS MODULE

AE M5-60 Series 155W-180W



ILLUSTRATION ONLY

GERMAN QUALITY



**POWER RANGE**  
Plus-Sorting 0 ~ + 4,99Wp



**PID RESISTANT**  
Potential induced degradation free



**SALT MIST CORROSION RESISTANT**  
Certified for salt rich environment



**SAND RESISTANT**  
Certified for sand rich environment



**AMMONIA RESISTANT**  
Certified for ammonia rich environment



**HIGH STRENGTHENED DESIGN**  
Maximum mechanical load 5400 Pa



**IP67 JUNCTION BOX**  
Advanced water and dust proof level



## GERMAN QUALITY

AE Solar photovoltaic modules are characterized by high-quality materials, best workmanship, German development and management.



## LINEAR PERFORMANCE GUARANTEE

With the linear performance guarantee of 30 years and a product warranty of 12 years, AE Solar guarantees highest investment security and warranty claims.



## PLUS-SORTING

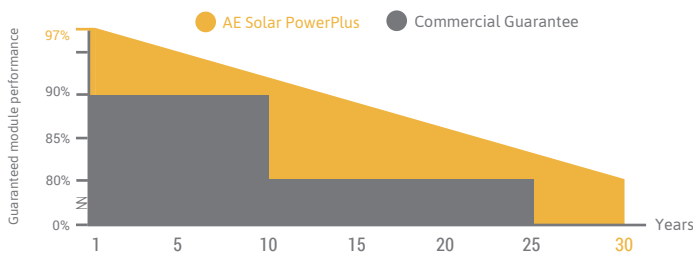
Higher yield due to plus-sorting of 0 to +4.99 Wp guarantees the highest system efficiency and yield stability.



## CERTIFICATES

AE Solar photovoltaic modules are not only in line with international standards, but also tested and certified under extreme stress and any environmental influences.

## OUR PERFORMANCE GUARANTEE



IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



PID RESISTANT  
SALT MIST RESISTANT  
SAND RESISTANT  
CORROSIVE GAS (NH<sub>3</sub>)



**AE SOLAR**  
Messerschmittring 54  
86343 Königsbrunn  
Germany

Tel.: +49 8231 97 82 68 0  
Fax: +49 8231 97 82 68 9

E-Mail: [info@ae-solar.com](mailto:info@ae-solar.com)  
Web: [www.ae-solar.com](http://www.ae-solar.com)

### ELECTRICAL DATA

AE155M5-60 AE160M5-60 AE165M5-60 AE170M5-60 AE175M5-60 AE180M5-60

|                       |          | AE155M5-60  | AE160M5-60 | AE165M5-60 | AE170M5-60 | AE175M5-60 | AE180M5-60 |
|-----------------------|----------|-------------|------------|------------|------------|------------|------------|
| Nominal power         | Pm (Wp)  | 155         | 160        | 165        | 170        | 175        | 180        |
| Open circuit voltage  | Voc (V)  | 36.52       | 37.21      | 37.98      | 38.16      | 38.28      | 38.86      |
| Short-circuit current | Isc (A)  | 5.73        | 5.79       | 5.83       | 5.87       | 5.90       | 5.93       |
| Voltage at max power  | Vmp (V)  | 30.72       | 31.08      | 31.44      | 31.98      | 32.34      | 32.58      |
| Current at max power  | Imp (A)  | 5.05        | 5.15       | 5.25       | 5.32       | 5.41       | 5.52       |
| Module efficiency     | (%)      | 14.42       | 14.89      | 15.35      | 15.82      | 16.28      | 16.75      |
| Cells efficiency      | (%)      | 16.85       | 17.40      | 17.94      | 18.49      | 19.03      | 19.57      |
| System Voltage        | (V)      | 1000        |            |            |            |            |            |
| Temp. coefficient Voc | (% / °C) | -0.36       |            |            |            |            |            |
| Temp. coefficient Isc | (% / °C) | 0.06        |            |            |            |            |            |
| Temp. coefficient Pm  | (% / °C) | -0.36       |            |            |            |            |            |
| Operating temp.       | (°C)     | -40 bis +85 |            |            |            |            |            |
| NOCT                  | (°C)     | 45±2        |            |            |            |            |            |

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C.

### TECHNICAL DATA

|  |                                 |
|--|---------------------------------|
| Junction box                             | 3 bypass diodes, IP67           |
| Wire cross section (Ø, mm <sup>2</sup> ) | 4.0                             |
| Cable lenght (mm)                        | 900                             |
| Connector type                           | MC4/MC4 compatible              |
| Dimensions (L x W x H, mm)               | 1330 x 808 x 35                 |
| Weight (kg)                              | 11.7                            |
| Cell dimensions (mm)                     | 125 x 125                       |
| No of cells / assembly                   | 60 / 6 x 10                     |
| Type of cells                            | mono-crystalline                |
| Hail resistance                          | Max. Ø 25 mm at 23 m/s          |
| Wind load                                | 2400Pa / 244kg / m <sup>2</sup> |
| Mechanical load                          | 5400Pa / 550kg / m <sup>2</sup> |

### SCALE

