

AE POWERPLUS MODULE

AE M5-48 Series 120W-145W



ILLUSTRATION ONLY

GERMAN
QUALITY

250W
145W

POWER RANGE

Plus-Sorting 0 ~ + 4,99Wp

PID
FREE

PID RESISTANT

Potential induced degradation free



SALT MIST CORROSION RESISTANT

Certified for salt rich environment



SAND RESISTANT

Certified for sand rich environment

NH₃
S

AMMONIA RESISTANT

Certified for ammonia rich environment

550
kg/m²

HIGH STRENGTHENED DESIGN

Maximum mechanical load 5400 Pa

IP67

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.



PLUS-SORTING

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



LINEAR PERFORMANCE GUARANTEE

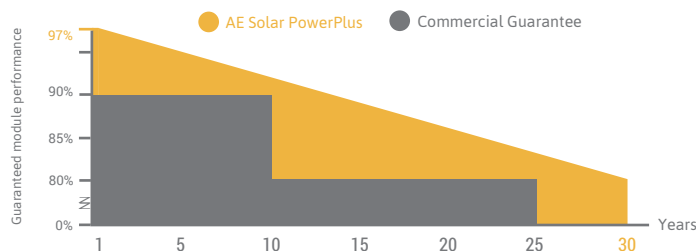
With the linear performance guarantee of 30 years and a product warranty of 12 years, AE Solar guarantees highest investment security and warranty claims.



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 (NH₃)



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ELECTRICAL DATA

AE120M5-48 AE125M5-48 AE130M5-48 AE135M5-48 AE140M5-48 AE145M5-48

| | | | | | | | |
|-----------------------|----------|-------------|-------|-------|-------|-------|-------|
| Nominal power | Pm (Wp) | 120 | 125 | 130 | 135 | 140 | 145 |
| Open circuit voltage | Voc (V) | 28.21 | 29.29 | 30.20 | 30.53 | 30.62 | 31.77 |
| Short-circuit current | Isc (A) | 5.71 | 5.76 | 5.81 | 5.86 | 5.89 | 5.90 |
| Voltage at max power | Vmp (V) | 24.15 | 24.73 | 25.01 | 25.58 | 25.79 | 25.87 |
| Current at max power | Imp (A) | 4.97 | 5.06 | 5.20 | 5.28 | 5.43 | 5.63 |
| Module efficiency | (%) | 13.88 | 14.46 | 15.04 | 15.61 | 16.19 | 16.77 |
| Cells efficiency | (%) | 16.31 | 16.99 | 17.67 | 18.35 | 19.03 | 19.71 |
| 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/m² 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 ²) | 4.0 |
| Cable lenght (mm) | 900 |
| Connector type | MC4/MC4 compatible |
| Dimensions (L x W x H, mm) | 1070 x 808 x 35 |
| Weight (kg) | 7.58 |
| Cell dimensions (mm) | 125 x 125 |
| No of cells / assembly | 48 / 6 x 8 |
| Type of cells | mono-crystalline |
| Hail resistance | Max. Ø 25 mm at 23 m/s |
| Wind load | 2400Pa / 244kg / m ² |
| Mechanical load | 5400Pa / 550kg / m ² |

SCALE

