

AE POWERPLUS MODULE

AE M6-36 Series 140W-165W

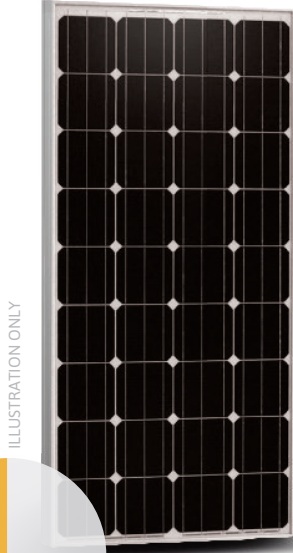


ILLUSTRATION ONLY

GERMAN QUALITY

- 140W
165W**
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

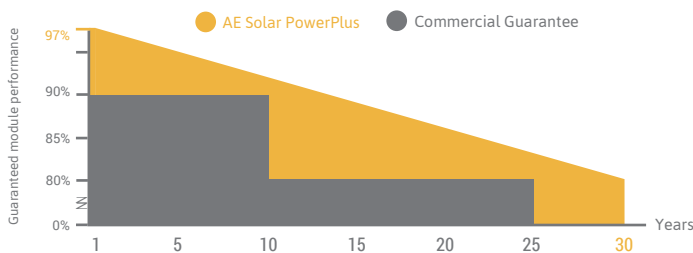
✓ GERMAN QUALITY
AE Solar photovoltaic modules are characterized by high-quality materials, best workmanship, German development and management.

🕒 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 (NH₃)



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ELECTRICAL DATA

AE140M6-36 AE145M6-36 AE150M6-36 AE155M6-36 AE160M6-36 AE165M6-36

Parameter	Unit	AE140M6-36	AE145M6-36	AE150M6-36	AE155M6-36	AE160M6-36	AE165M6-36
Nominal power	Pm (Wp)	140	145	150	155	160	165
Open circuit voltage	Voc (V)	21.52	22.50	22.75	22.93	23.04	23.50
Short-circuit current	Isc (A)	8.60	8.70	8.81	8.91	8.97	9.01
Voltage at max power	Vmp (V)	18.47	18.64	18.97	19.26	19.47	19.58
Current at max power	Imp (A)	7.58	7.78	7.91	8.05	8.22	8.43
Module efficiency	(%)	14.12	14.62	15.13	15.63	16.14	16.64
Cells efficiency	(%)	16.44	17.03	17.61	18.20	18.79	19.38
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	2 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)	1480 x 670 x 35
Weight (kg)	10.8
Cell dimensions (mm)	156 x 156
No of cells / assembly	36 / 4 x 9
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

