

AE POWERPLUS MODULE

AE P5-36 Series 80W-100W



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

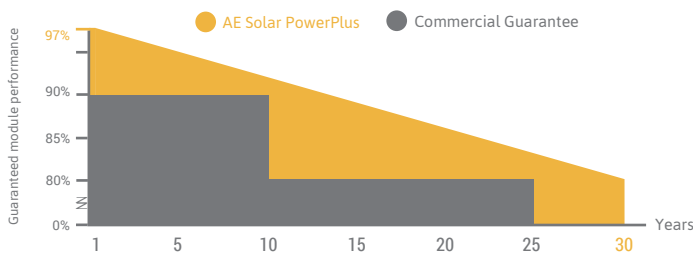
Higher yield due to plus-sorting of 0 to +4.99 Wp guarantees the highest system efficiency and yield stability.



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 (NH₃)



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ELECTRICAL DATA		AE80P5-36	AE85P5-36	AE90P5-36	AE95P5-36	AE100P5-36
Nominal power	Pm (Wp)	80	85	90	95	100
Open circuit voltage	Voc (V)	20.82	21.38	22.43	22.62	22.83
Short-circuit current	Isc (A)	5.16	5.27	5.44	5.68	5.86
Voltage at max power	Vmp (V)	17.49	17.65	17.96	18.18	18.58
Current at max power	Imp (A)	4.81	5.02	5.19	5.43	5.69
Module efficiency	(%)	12.12	12.88	13.64	14.39	15.14
Cells efficiency	(%)	14.37	15.26	16.16	17.06	17.96
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)	1200 x 550 x 35
Weight (kg)	5.78
Cell dimensions (mm)	125 x 125
No of cells / assembly	36 / 4 x 9
Type of cells	poly-crystalline
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²

SCALE

