

# AE POWERPLUS MODULE

AE M5-96 Series 255W-280W

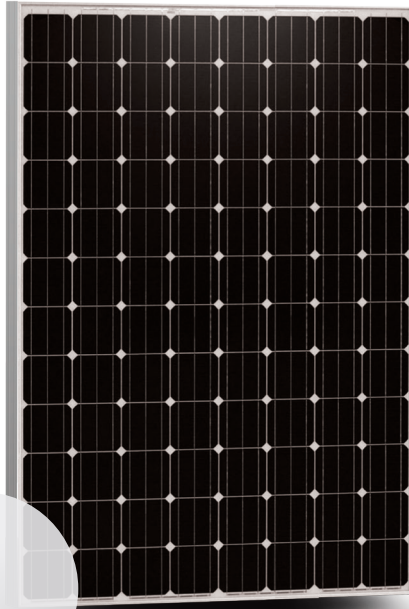


ILLUSTRATION ONLY

GERMAN QUALITY

255W  
280W

## 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

NH<sub>3</sub>  
S

## AMMONIA RESISTANT

Certified for ammonia rich environment



## HIGH STRENGTHENED DESIGN

Maximum mechanical load 5400 Pa

IP67  
Water drop icon

## 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

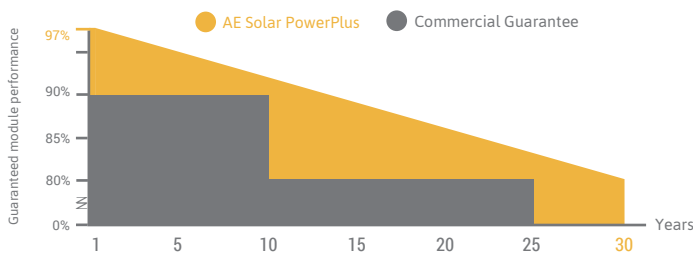
Higher yield due to plus-sorting of 0 to +4.99 Wp guarantees the highest system efficiency and yield stability.



## 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>)



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### ELECTRICAL DATA

AE255M5-96 AE260M5-96 AE265M5-96 AE270M5-96 AE275M5-96 AE280M5-96

Parameter	Unit	AE255M5-96	AE260M5-96	AE265M5-96	AE270M5-96	AE275M5-96	AE280M5-96
Nominal power	Pm (Wp)	255	260	265	270	275	280
Open circuit voltage	Voc (V)	59.56	60.38	60.77	60.96	61.15	61.15
Short-circuit current	Isc (A)	5.78	5.81	5.84	5.86	5.88	5.91
Voltage at max power	Vmp (V)	49.54	50.02	50.59	50.98	51.36	51.75
Current at max power	Imp (A)	5.15	5.20	5.24	5.30	5.35	5.41
Module efficiency	(%)	15.23	15.52	15.82	16.12	16.42	16.72
Cells efficiency	(%)	17.33	17.67	18.01	18.35	18.69	19.03
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	4 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)	1580 x 1060 x 40
Weight (kg)	18.60
Cell dimensions (mm)	125 x 125
No of cells / assembly	96 / 8 x 12
Type of cells	mono-crystalline
Hail resistance	Max. Ø 28 mm at 23 m/s
Wind load	2400Pa / 244kg / m <sup>2</sup>
Mechanical load	5400Pa / 550kg / m <sup>2</sup>

### SCALE

