

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**AE Solar  
AE M5-48\_120-145W  
AE M5-48 125W**

Also available on the web at  
[EnergyPal.com/ae-solar-solar-panels/ae-m5-48-125w](http://EnergyPal.com/ae-solar-solar-panels/ae-m5-48-125w)

# AE POWERPLUS MODULE

AE M5-48 Series 120W-145W



ILLUSTRATION ONLY



We produce with green energy!



## POWER RANGE

Plus-Sorting 0 to + 4,99Wp



## PID RESISTANT

Potential Induced Degradation Free



## SALT CORROSION RESISTANT

Certified for Salt Rich Environment



## SAND RESISTANT

Certified for Sand Rich Environment



## AMMONIA RESISTANT

Certified for Ammonia Rich Atmosphere



## HIGHLY STABLE AND TOUGH

Maximum Mechanical Load 5400 Pa



## GERMAN QUALITY

AE Solar photovoltaic modules are manufactured using high-quality materials, automated machine, German Technology and Standards



## PLUS-SORTING

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



## PERFORMANCE GUARANTEE

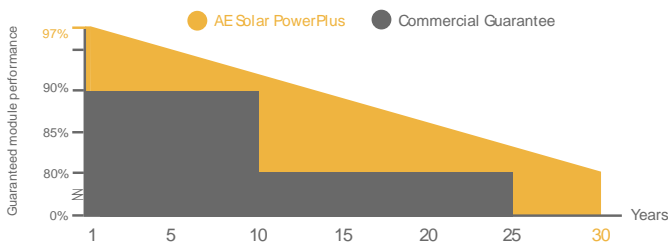
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty



## CERTIFICATES

Lining with International Standards, AE Solar Photovoltaic modules are tested and certified under extreme stress and it can bear harsh 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>)

CEC CE



It's time to save the world!

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# TECHNICAL DATA

## AE M5-48 Series 120W-145W

### ELECTRICAL DATA

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

Parameter	Unit	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)	29.93	30.09	30.25	30.41	30.58	30.74
Short-circuit current	Isc (A)	5.19	5.32	5.44	5.57	5.69	5.81
Voltage at max power	Vmp (V)	24.99	25.15	25.31	25.47	25.63	25.79
Current at max power	Imp (A)	4.80	4.97	5.14	5.30	5.46	5.62
Filling Factor	(%)	77.25	78.09	79.00	79.70	80.46	81.19
Module Efficiency	(%)	13.88	14.46	15.04	15.61	16.19	16.77
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 to +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, IP 67

Wire cross section (∅, mm<sup>2</sup>) 4.0

Cable length (mm) 900

Connector type MC 4 / MC 4 compatible

Dimensions (L x W x H, mm) 1070 x 808 x 35

Weight (kg) 7.58

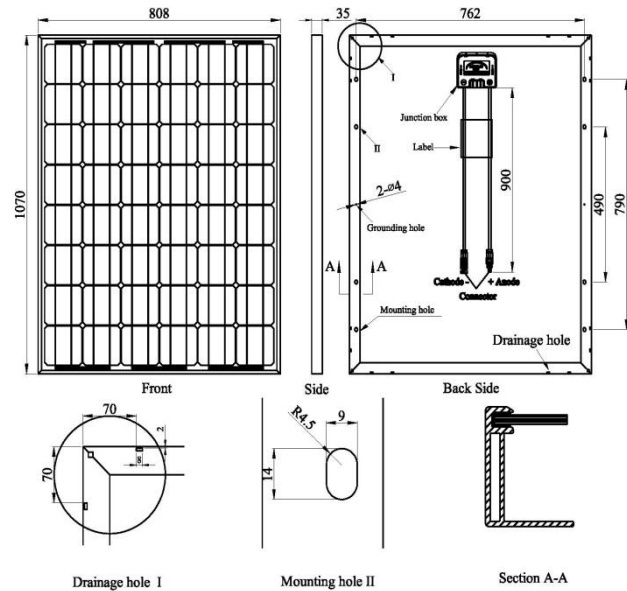
Specification (mm) Mono 125 / 6 x 8

Hail resistance Max. ∅ 28 mm, at 23 m/s

Wind load 2400Pa / 244kg / m<sup>2</sup>

Mechanical load 5400Pa / 550kg / m<sup>2</sup>

### SCALE



### PACKAGING INFORMATION

Packing configuration 70pcs / pallet

Loading Capacity 1400pcs / 40HQ

Size / pallet (mm) 1120 x 1135 x 2325

Weight 805kg / pallet



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