

AE POWERPLUS MODULE

AE M5-48 Series 120W-145W



ILLUSTRATION ONLY



GERMAN QUALITY

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

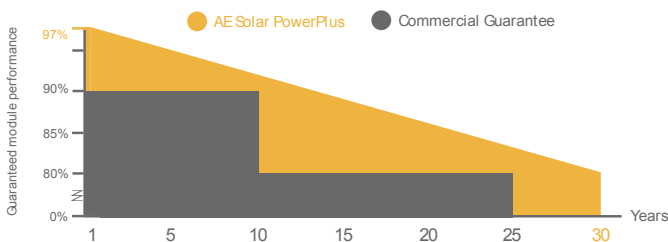
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty



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 (NH₃)

CEC CE

TECHNICAL DATA

AE M5-48 Series 120W-145W

ELECTRICAL DATA

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

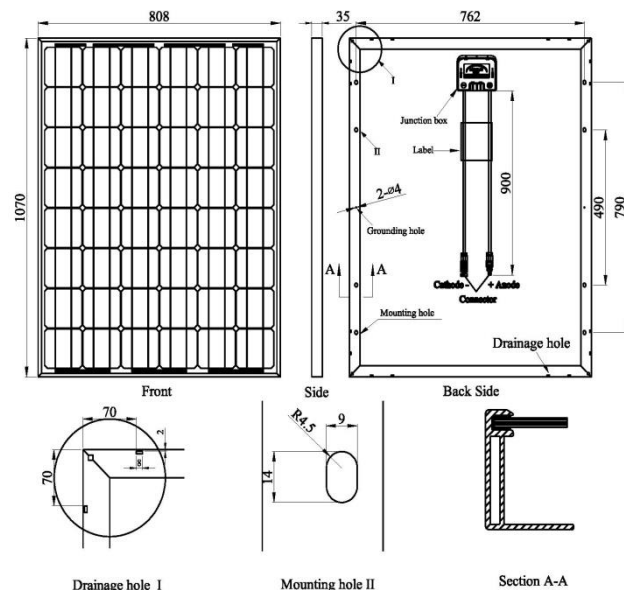
Parameter	Unit	AE120M5-48	AE125M5-48	AE130M5-48	AE135M5-48	AE140M5-48	AE145M5-48
Nominal power	Pm (Wp)	120	125	130	135	140	145
Open circuit voltage	Voc (V)	29.93	30.09	30.25	30.41	30.58	30.74
Short-circuit current	Isc (A)	5.19	5.32	5.44	5.57	5.69	5.81
Voltage at max power	Vmp (V)	24.99	25.15	25.31	25.47	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/m² with spectrum AM 1.5 and a cell temperature of 25°C.

TECHNICAL DATA

Junction box	3 bypass diodes, IP 67
Wire cross section (ϕ , mm ²)	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. ϕ 28 mm, at 23 m/s
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²

SCALE



PACKAGING INFORMATION

Packing configuration	70pcs / pallet
Loading Capacity	1400pcs / 40HQ
Size / pallet (mm)	1120 x 1135 x 2325
Weight	805kg / pallet