

Deutsche  
Qualität  
Garantiert



120

HALF  
CELLS

166  
mm

CELL  
SIZE



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



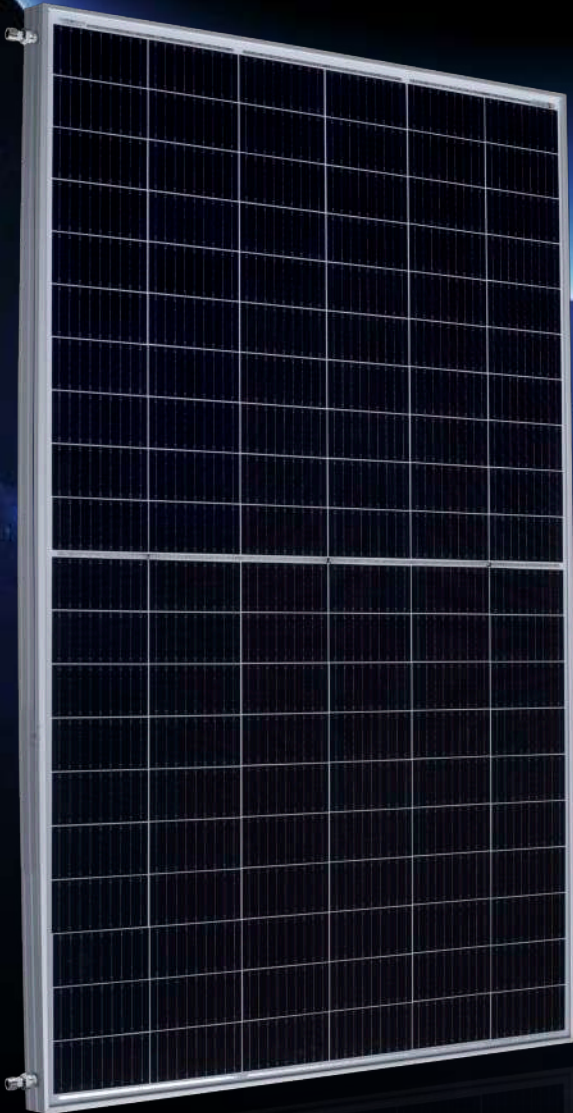
SAND  
RESISTANT



AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH



# NEPTUNE

PVT collectors provide both  
electrical and thermal energy

30

years

Performance  
Guarantee

15

years

Product  
Warranty

MONO-CRYSTALLINE PV MODULES  
HALF-CUT CELLS • MONO-FACIAL

**PV 370W - 380W**

**Thermal 964W**

AE PV - Thermal Series



IEC 61215  
IEC 61730  
Regular Production Surveillance  
Type Tested and Monitored

IEC 62716 (Ammonia corrosion)  
IEC 61701 (Salt mist corrosion)  
IEC 60068 (Sand and dust)  
IEC 62804 (PID resistance)

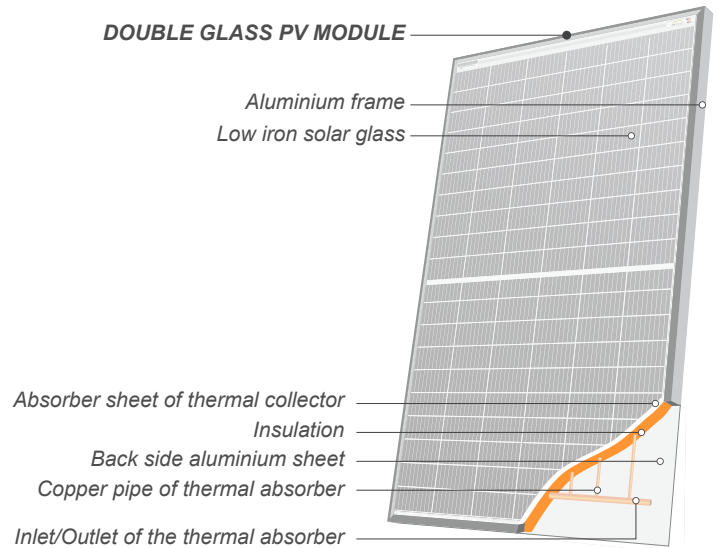


www.ae-solar.com

### Mechanical and design specification

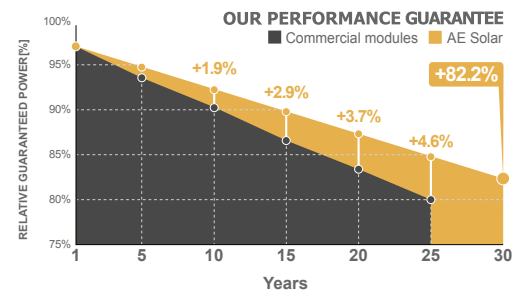
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 166 mm
No. of cells	120
Glass	Low iron %, AR glass 3.2mm
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP 68 rated
Frame	anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1755 mm x 1038 mm x 35 mm
Weight	33 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m <sup>2</sup>
Mechanical load	5400 Pa/ 550 kg/ m <sup>2</sup>

DOUBLE GLASS PV MODULE



### Thermal specifications

Peak thermal power / m <sup>2</sup>	<b>529 Wp</b>
Peak thermal power / collector	<b>964 Wp</b>
In/out connection of thermal absorber	Copper pipe F22 mm
Type of medium	Propylene glycol
Quantity of medium	1.4l
Absorber Sheet	Aluminum
Register	Copper pipe F6mm
Insulation	Stone wool 20 mm



### Electrical specifications (STC\*):

		AE370PV-120	AE375PV-120	AE380PV-120
Nominal Max. Power	P <sub>max</sub> (Wp)	370	375	380
Maximum operating voltage	V <sub>MPP</sub> (V)	34.4	34.6	34.8
Maximum operating current	I <sub>MPP</sub> (A)	10.76	10.84	10.92
Open-circuit voltage	V <sub>oc</sub> (V)	41.3	41.5	41.7
Short-circuit current	I <sub>sc</sub> (A)	11.60	11.70	11.80
Module efficiency	η (%)	20.31	20.59	20.86
Power tolerance	(W)		0~+5	
Maximum system Voltage	(V)		1500	
Maximum series fuse rating	(A)		20	

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5)

### Electrical specifications (NMOT\*):

		AE370PV-120	AE375PV-120	AE380PV-120
Nominal Max. Power	P <sub>max</sub> (Wp)	279	283	287
Maximum operating voltage	V <sub>MPP</sub> (V)	32.40	32.60	32.80
Maximum operating current	I <sub>MPP</sub> (A)	8.60	8.67	8.74
Open-circuit voltage	V <sub>oc</sub> (V)	38.90	39.10	39.30
Short-circuit current	I <sub>sc</sub> (A)	9.28	9.36	9.44

\*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.