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Warranty

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years  
Product  
Warranty

## 640W-660W AE ME-132 Series

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

[www.ae-solar.com](http://www.ae-solar.com)

Ver. 23.12.1



132

HALF  
CELLS



210  
mm

CELL  
SIZE



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



SAND  
RESISTANT



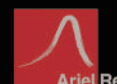
AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH



IEC 61215 IEC 61730  
Regular Production Surveillance  
[www.tuv.com](http://www.tuv.com)  
ID 1111251295



# AE ME-132 Series 640W-660W



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

## Mechanical and design specification

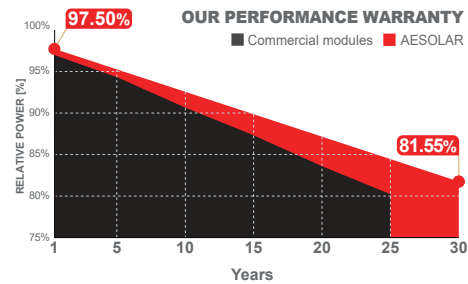
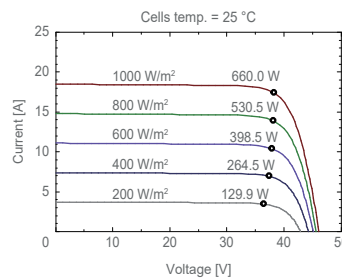
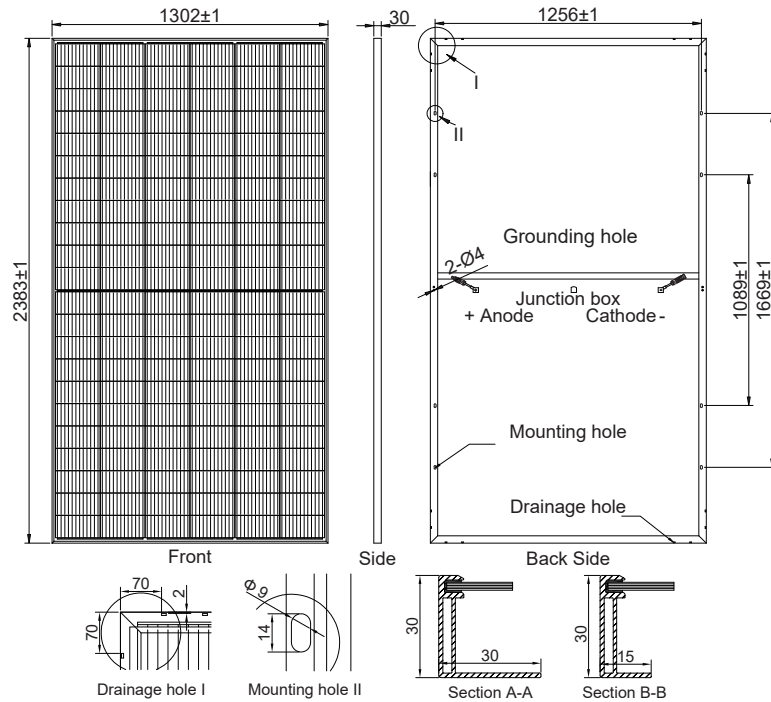
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 210 mm
No. of cells	132
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 30 mm
Weight	31.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m <sup>2</sup>
Snow load	5400 Pa or 550 kg/m <sup>2</sup>

## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	612 pcs / 40 HQ
Size / Pallet	1350 mm x 1140 mm x 2500 mm (Upright)
Weight	1167 kg / pallet

## Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P <sub>max</sub>	(%/°C)	-0.34
Temp.coefficient of V <sub>oc</sub>	(%/°C)	-0.25
Temp.coefficient of I <sub>sc</sub>	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	43 ± 2



Electrical specifications (STC*):		AE640ME-132	AE645ME-132	AE650ME-132	AE655ME-132	AE660ME-132
Nominal Max. Power	P <sub>max</sub> (Wp)	640	645	650	655	660
Maximum operating voltage	V <sub>MPP</sub> (V)	37.00	37.20	37.40	37.60	37.80
Maximum operating current	I <sub>MPP</sub> (A)	17.30	17.34	17.38	17.42	17.46
Open-circuit voltage	V <sub>oc</sub> (V)	45.10	45.30	45.50	45.70	45.90
Short-circuit current	I <sub>sc</sub> (A)	17.74	18.25	18.32	18.38	18.43
Module efficiency	η (%)	20.63	20.79	20.95	21.11	21.27
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5), measurement tolerance P<sub>max</sub>: ±3%

Electrical specifications (NMOT*):		AE640ME-132	AE645ME-132	AE650ME-132	AE655ME-132	AE660ME-132
Nominal Max. Power	P <sub>max</sub> (Wp)	480	484	488	492	496
Maximum operating voltage	V <sub>MPP</sub> (V)	34.70	34.90	35.10	35.30	35.50
Maximum operating current	I <sub>MPP</sub> (A)	13.84	13.87	13.90	13.94	13.97
Open-circuit voltage	V <sub>oc</sub> (V)	42.00	42.20	42.40	42.60	42.80
Short-circuit current	I <sub>sc</sub> (A)	14.19	14.60	14.66	14.70	14.74

\*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.



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