

640W-660W

ME-132BD

21.27%
MAXIMUM EFFICIENCY

132
HALF CELLS

- ◆ Established durability and yield data
- ◆ High flexibility with BOM



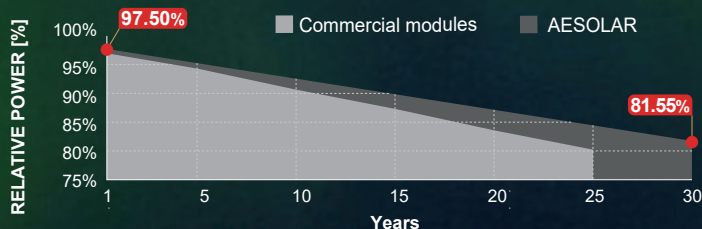
Ver. 26.8.1

30 YEARS
Performance Warranty

up to **30 YEARS***
Product Warranty

*The regular product warranty is 15 years, please refer to the latest version of AESOLAR Limited Warranty for the duration of the product warranty under special conditions. for extensions, please contact AESOLAR staff.

OUR PERFORMANCE WARRANTY



AESOLAR

Since 2003



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



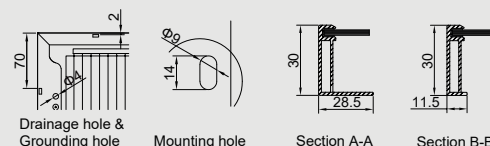
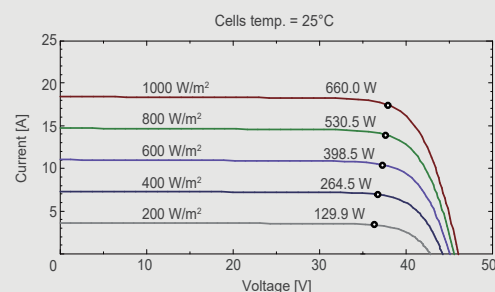
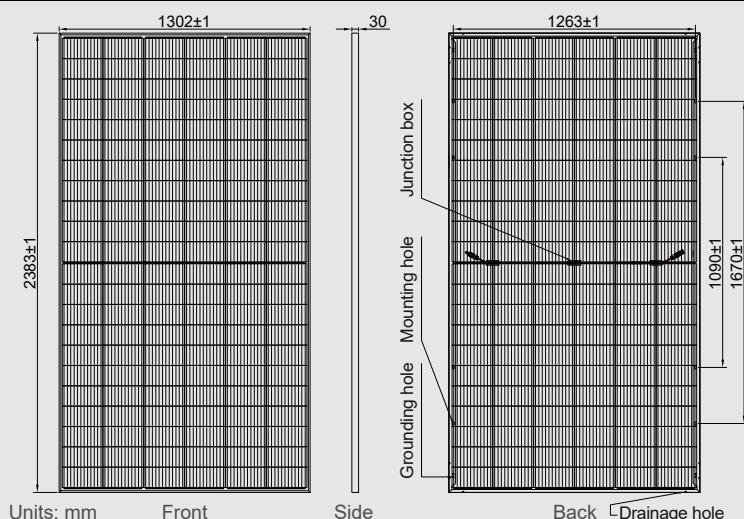
SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	640	645	650	655	660
Maximum operating voltage	V_{MPP} (V)	37.00	37.20	37.40	37.60	37.80
Maximum operating current	I_{MPP} (A)	17.30	17.34	17.38	17.42	17.46
Open-circuit voltage	V_{oc} (V)	45.10	45.30	45.50	45.70	45.90
Short-circuit current	I_{sc} (A)	18.19	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/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance P_{max} : ±3%

Electrical specifications (NMOT*):

Nominal max. power	480	484	488	492	496
Maximum operating voltage	34.70	34.90	35.10	35.30	35.50
Maximum operating current	13.84	13.87	13.90	13.94	13.97
Open-circuit voltage	42.00	42.20	42.40	42.60	42.80
Short-circuit current	14.19	14.60	14.66	14.70	14.74

*NMOT: Normal Module Operating Temperature (irradiance 800 W/m², ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

Bifacial electrical specifications

Max. power front-side	640	645	650	655	660
P_{max} front (Wp)					
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power	672 704	677 710	683 715	688 720	693 726
P_{max} equ (Wp)					
Module efficiency	21.66 22.69	21.83 22.87	22.00 23.05	22.17 23.22	22.34 23.40
η (%)					

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on the mounting (structure, height, tilt angle, etc.) and albedo of the ground.

Mechanical and design specification

Cell type	Gallium-doped mono c-Si PERC, half-cut cells
No. of cells	132
Bifaciality	70 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm², 300 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 30 mm
Weight	37 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

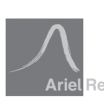
Packaging information

One pallet			

Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.34 %/°C
Temp. coefficient of V_{oc}	-0.25 %/°C
Temp. coefficient of I_{sc}	0.040 %/°C
Nom. operating cell temp. NOCT	43 ± 2°C

SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730
Regular Production Surveillance
www.tuv.com

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

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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