

# 640W-660W

ME-132

**21.27%**  
MAXIMUM EFFICIENCY

**132**  
HALF CELLS

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



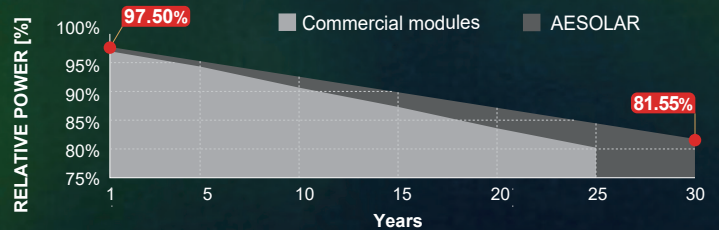
Ver. 26.1.1

**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



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



SAND  
RESISTANT



AMMONIA  
RESISTANT

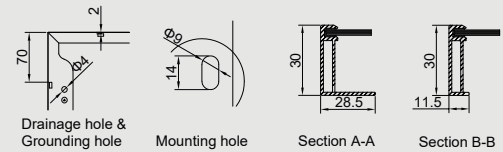
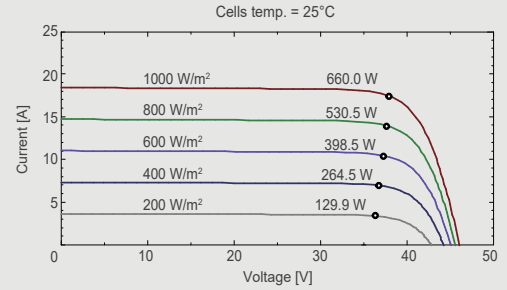
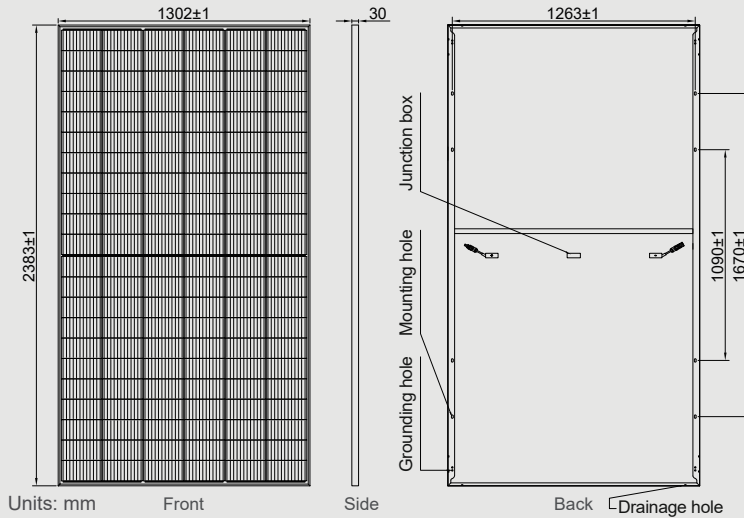


HIGHLY STABLE  
AND TOUGH

# AE ME-132 640W-660W

P-TYPE PERC TECHNOLOGY

MONO-FACIAL PV MODULE



## Electrical specifications (STC\*):

Parameter	$P_{max}$ (Wp)	640	645	650	655	660
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	$\eta$ (%)	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  $P_{max}$ : ±3%

## Mechanical and design specification

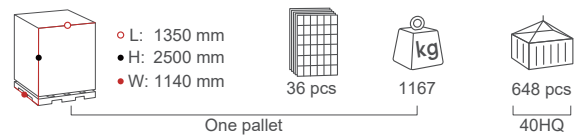
Cell type	Gallium-doped mono c-Si PERC, half-cut cells
No. of cells	132
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm <sup>2</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>

## Electrical specifications (NMOT\*):

Parameter	$P_{max}$ (Wp)	480	484	488	492	496
Nominal max. power	$P_{max}$ (Wp)	480	484	488	492	496
Maximum operating voltage	$V_{MPP}$ (V)	34.70	34.90	35.10	35.30	35.50
Maximum operating current	$I_{MPP}$ (A)	13.84	13.87	13.90	13.94	13.97
Open-circuit voltage	$V_{oc}$ (V)	42.00	42.20	42.40	42.60	42.80
Short-circuit current	$I_{sc}$ (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)

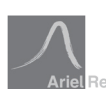
## Packaging information



## 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.