



Deutsche  
Qualität  
Garantiert



**METEOR**  
N-TYPE TOPCON TECHNOLOGY

# CMD-144BDS 575W-595W

More power, less degradation

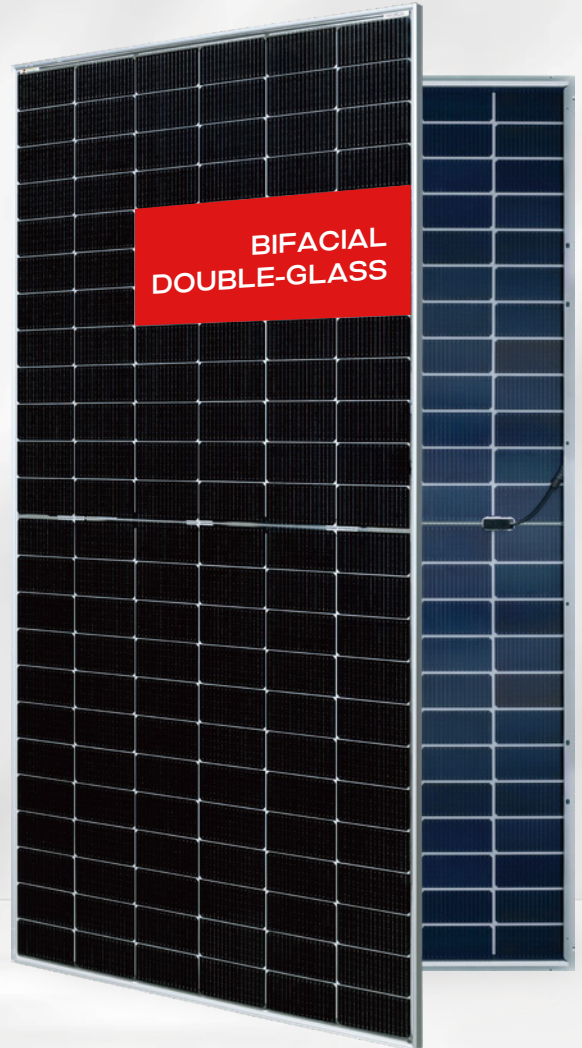
**23.05%**  
MAXIMUM EFFICIENCY

**144**  
HALF CELLS

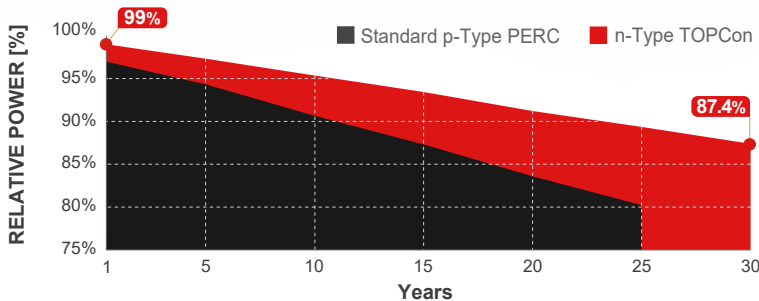
**30 YEARS** Performance Warranty      up to **30 YEARS\*** Product Warranty

\*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.

- LID RESISTANT
- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- AMMONIA RESISTANT
- HIGHLY STABLE AND TOUGH



## OUR PERFORMANCE WARRANTY



## SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730  
Regular Production Surveillance

www.tuv.com  
ID 1111257249

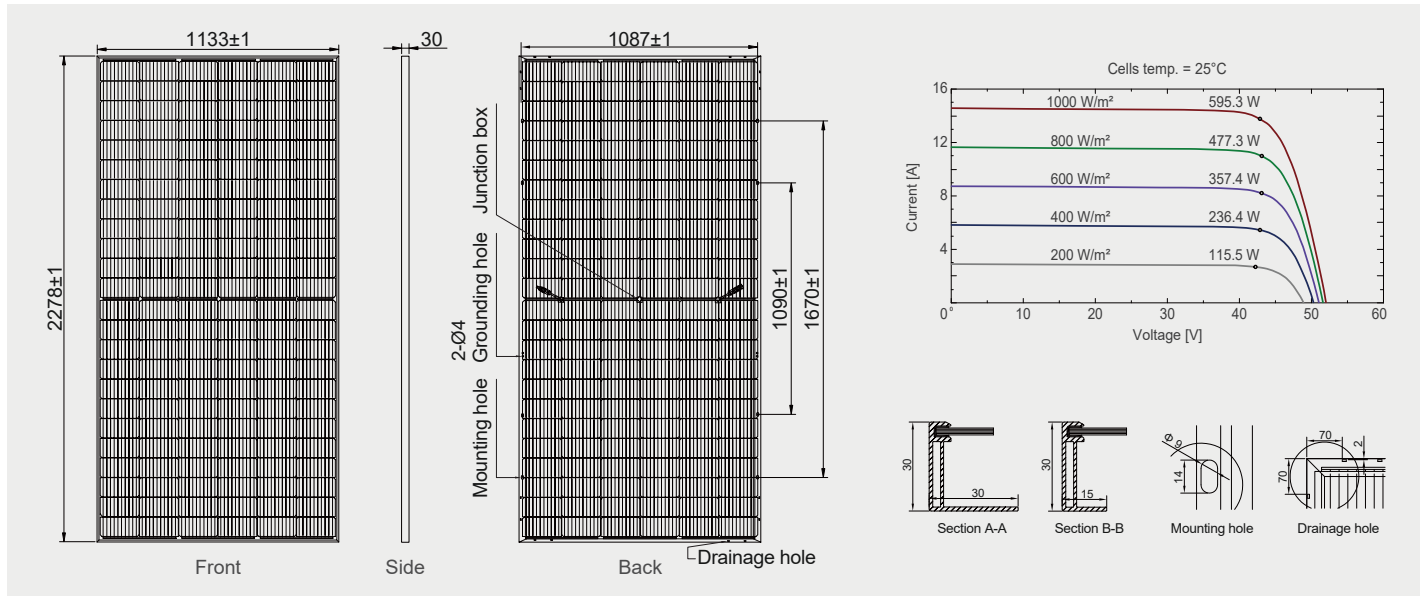


www.ae-solar.com

# AE CMD-144BDS 575W-595W

N-TYPE TOPCON TECHNOLOGY PV MODULE

BIFACIAL • DOUBLE-GLASS



## Electrical specifications (STC\*):

Nominal max. power	$P_{max}$ (Wp)	575	580	585	590	595
Maximum operating voltage	$V_{MPP}$ (V)	42.88	43.04	43.14	43.29	43.46
Maximum operating current	$I_{MPP}$ (A)	13.41	13.49	13.56	13.63	13.69
Open-circuit voltage	$V_{oc}$ (V)	50.73	50.86	51.83	52.02	52.21
Short-circuit current	$I_{sc}$ (A)	14.33	14.40	14.47	14.54	14.61
Module efficiency	$\eta$ (%)	22.28	22.47	22.67	22.86	23.05
Power tolerance	(W)			0~+5		
Maximum system voltage	(V)			1500		
Maximum series fuse rating	(A)			25		

\*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	$P_{max}$ (Wp)	437.4	440.0	445.0	448.0	452.0
Maximum operating voltage	$V_{MPP}$ (V)	39.80	39.90	40.13	40.22	40.39
Maximum operating current	$I_{MPP}$ (A)	10.99	11.04	11.09	11.14	11.19
Open-circuit voltage	$V_{oc}$ (V)	48.00	48.20	48.40	48.60	48.80
Short-circuit current	$I_{sc}$ (A)	11.55	11.60	11.65	11.70	11.75

\*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 $P_{max}$ front (Wp)	575	580	585	590	595
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power $P_{max}$ equ (Wp)	604 633	610 639	614 644	620 649	625 655
Module efficiency $\eta$ (%)	23.39 24.51	23.62 24.75	23.80 24.93	24.00 25.15	24.20 25.36

\*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	n-Type TOPCon technology, half-cut cells
No. of cells	144
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2278 mm x 1133 mm x 30 mm
Weight	31 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
Fire rating	Class A (according to UL 790)

## Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of $P_{max}$	-0.29 %/°C
Temp. coefficient of $V_{oc}$	-0.25 %/°C
Temp. coefficient of $I_{sc}$	0.046 %/°C
Nom. operating cell temp. NOCT	42 ± 2°C

## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	720 pcs / 40 HQ
Size / Pallet	2310 mm x 1140 mm x 1245 mm
Weight	1160 kg / pallet

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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N-TYPE TOPCON TECHNOLOGY

# CMER-132BDS 610W-630W

More power, less degradation

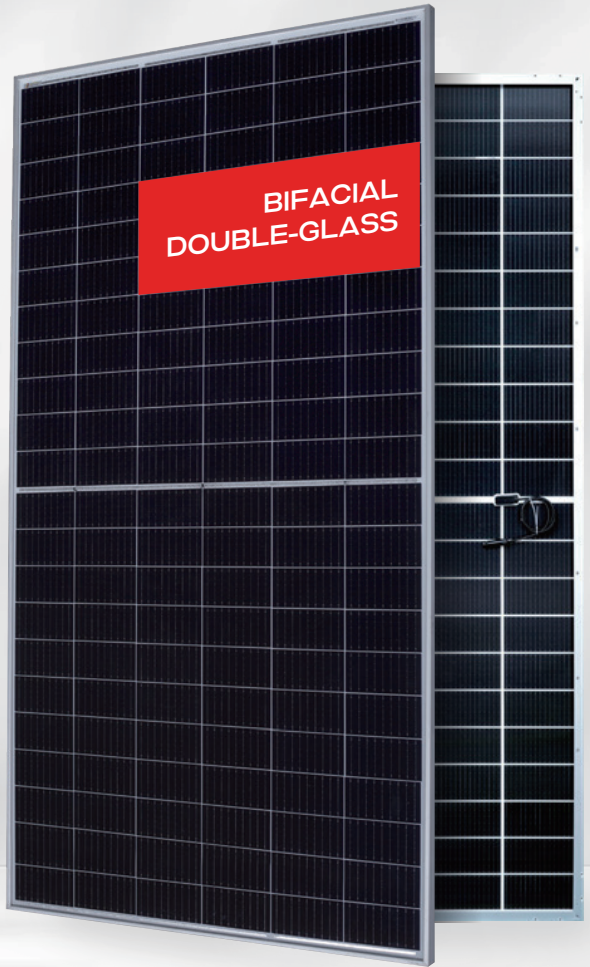
**23.34%**  
MAXIMUM EFFICIENCY

**132**  
HALF CELLS

**30 YEARS**  
Performance Warranty

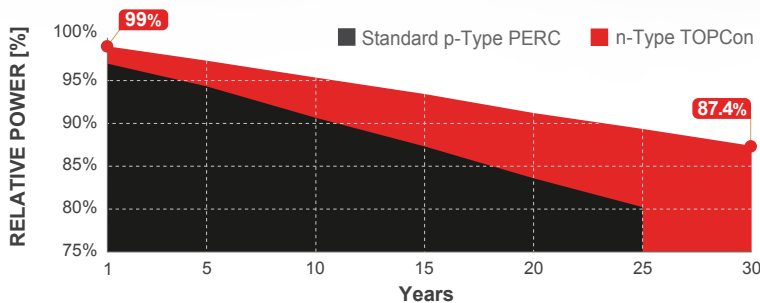
up to **30 YEARS\***  
Product Warranty

\*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.



- LID RESISTANT
- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- AMMONIA RESISTANT
- HIGHLY STABLE AND TOUGH

## OUR PERFORMANCE WARRANTY



## SYSTEM AND PRODUCT CERTIFICATIONS

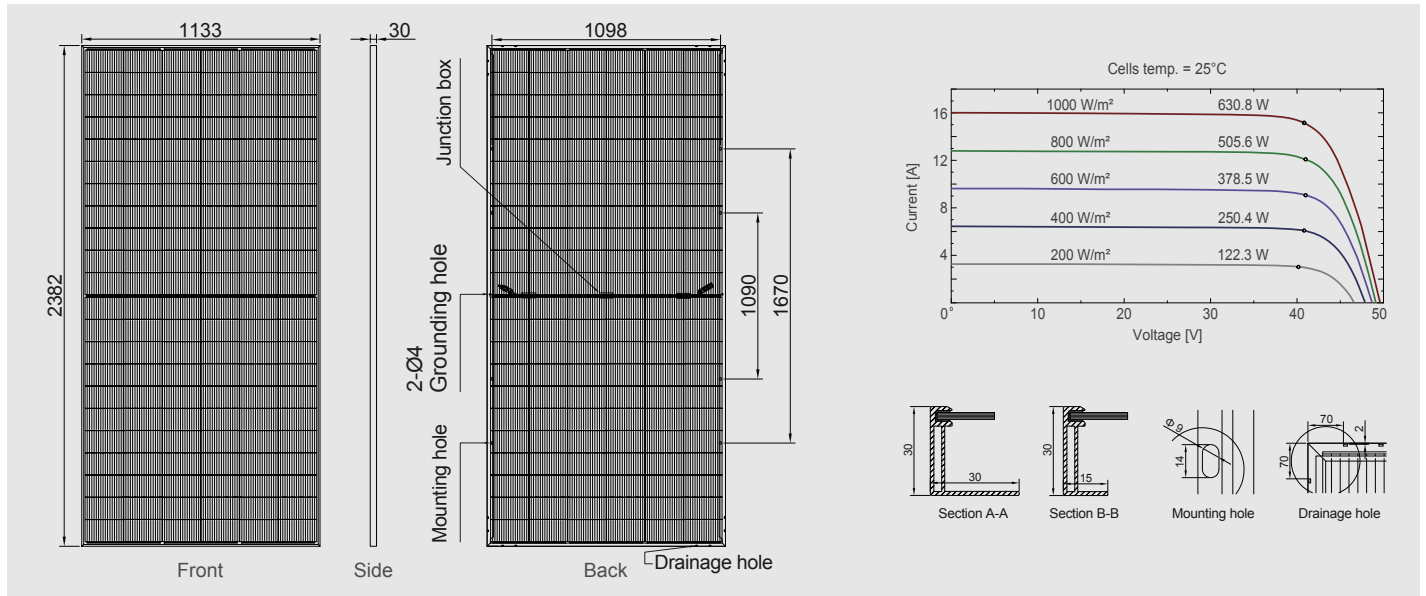


www.ae-solar.com

# AE CMER-132BDS 610W-630W

N-TYPE TOPCON TECHNOLOGY PV MODULE

BIFACIAL • DOUBLE-GLASS



## Electrical specifications (STC\*):

Parameter	Symbol	610	615	620	625	630
Nominal max. power	$P_{max}$ (Wp)	610	615	620	625	630
Maximum operating voltage	$V_{MPP}$ (V)	40.80	41.10	41.40	41.70	42.00
Maximum operating current	$I_{MPP}$ (A)	14.95	14.96	14.98	14.99	15.00
Open-circuit voltage	$V_{oc}$ (V)	49.00	49.30	49.60	49.90	50.20
Short-circuit current	$I_{sc}$ (A)	15.96	15.99	16.03	16.06	16.09
Module efficiency	$\eta$ (%)	22.60	22.79	22.97	23.16	23.34
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 Pmax: ±3%

## Electrical specifications (NMOT\*):

Parameter	Symbol	467	470	474	478	482
Nominal max. power	$P_{max}$ (Wp)	467	470	474	478	482
Maximum operating voltage	$V_{MPP}$ (V)	38.20	38.40	38.60	38.80	39.00
Maximum operating current	$I_{MPP}$ (A)	12.23	12.24	12.28	12.32	12.36
Open-circuit voltage	$V_{oc}$ (V)	46.50	46.80	47.10	47.40	47.70
Short-circuit current	$I_{sc}$ (A)	12.88	12.88	12.90	12.93	12.95

\*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

Parameter	610	615	620	625	630
Max. power front-side					
$P_{max front}$ (Wp)	610	615	620	625	630
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power					
$P_{max equ}$ (Wp)	641 671	646 677	651 682	656 686	662 693
Module efficiency					
$\eta$ (%)	23.73 24.86	23.93 25.07	24.12 25.27	24.32 25.48	24.51 25.67

\*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	n-Type TOPCon technology, half-cut cells
No. of cells	132
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	1 x 4 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2382 mm x 1133 mm x 30 mm
Weight	33.7 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
Fire rating	Class A (according to UL 790)

## Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of $P_{max}$	-0.29 %/°C
Temp. coefficient of $V_{oc}$	-0.24 %/°C
Temp. coefficient of $I_{sc}$	0.040 %/°C
Nom. operating cell temp. NOCT	43 ± 2°C

## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	720 pcs / 40 HQ
Size / Pallet	1160 mm x 1140 mm x 2500 mm (Upright)
Weight	1241 kg / pallet

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**METEOR**  
N-TYPE TOPCON TECHNOLOGY

# CME-132BDS 705W-725W

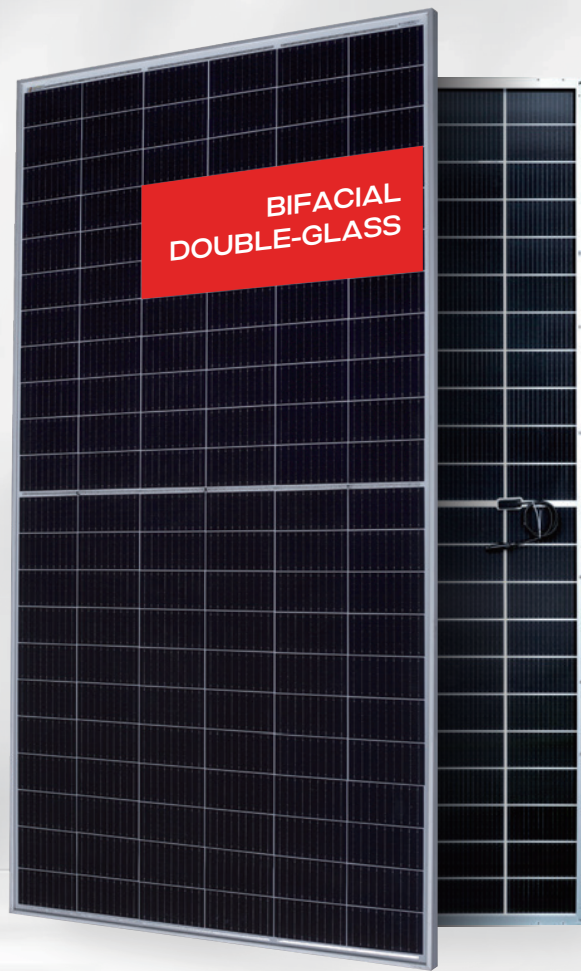
More power, less degradation

**23.37%**  
MAXIMUM EFFICIENCY

**132**  
HALF CELLS

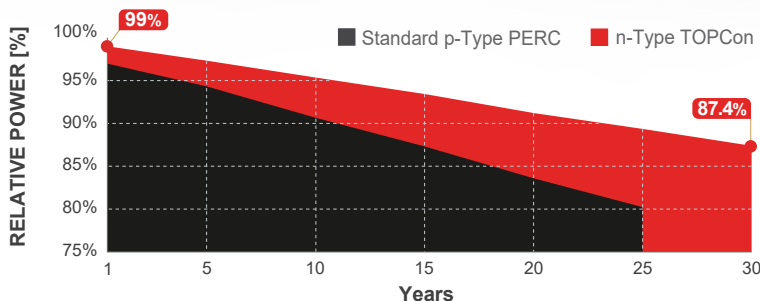
**30 YEARS** Performance Warranty      up to **30 YEARS\*** Product Warranty

\*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.



- LID RESISTANT
- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- AMMONIA RESISTANT
- HIGHLY STABLE AND TOUGH

## OUR PERFORMANCE WARRANTY



## SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730  
Regular Production Surveillance  
www.tuv.com  
ID 1111257249

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

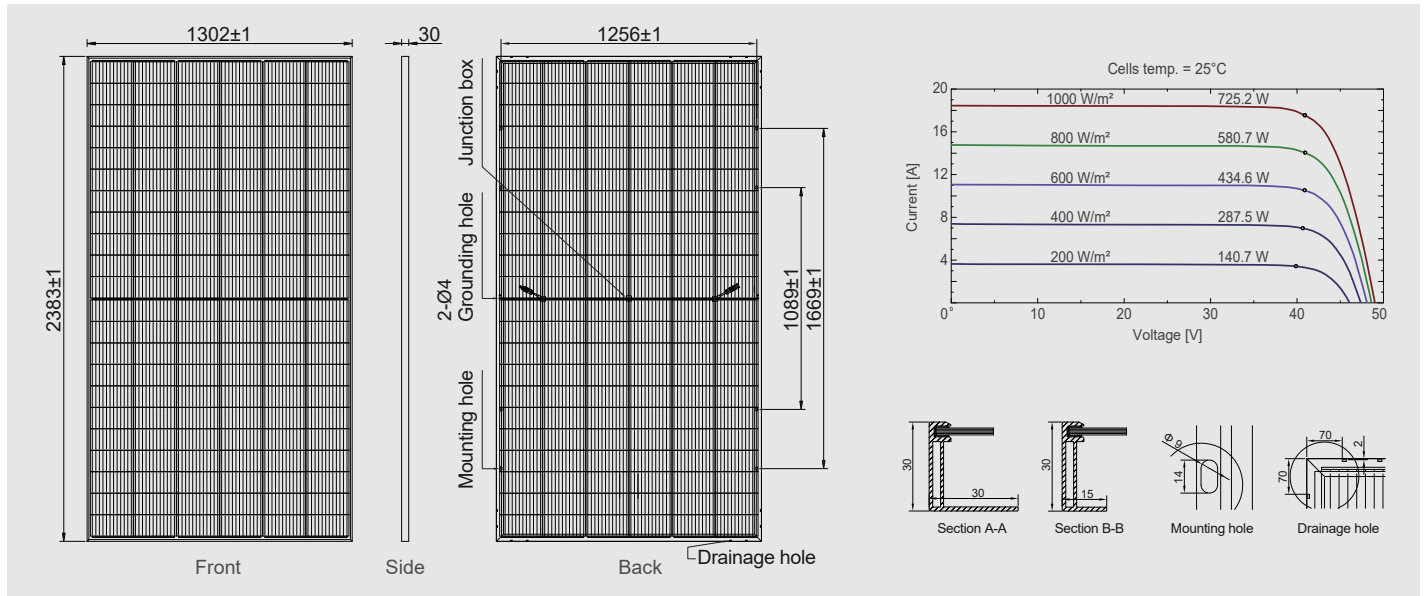


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# AE CME-132BDS 705W-725W

N-TYPE TOPCON TECHNOLOGY PV MODULE

BIFACIAL • DOUBLE-GLASS



## Electrical specifications (STC\*):

Parameter	Symbol	705	710	715	720	725
Nominal max. power	$P_{max}$ (Wp)	705	710	715	720	725
Maximum operating voltage	$V_{MPP}$ (V)	40.70	40.90	41.10	41.30	41.50
Maximum operating current	$I_{MPP}$ (A)	17.32	17.36	17.40	17.43	17.47
Open-circuit voltage	$V_{oc}$ (V)	48.50	48.70	48.90	49.10	49.30
Short-circuit current	$I_{sc}$ (A)	18.34	18.37	18.40	18.43	18.46
Module efficiency	$\eta$ (%)	22.72	22.88	23.04	23.21	23.37
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\*):

Parameter	Symbol	537	540	544	548	552
Nominal max. power	$P_{max}$ (Wp)	537	540	544	548	552
Maximum operating voltage	$V_{MPP}$ (V)	38.28	38.41	38.61	38.81	39.01
Maximum operating current	$I_{MPP}$ (A)	14.03	14.06	14.09	14.12	14.15
Open-circuit voltage	$V_{oc}$ (V)	46.00	46.20	46.40	46.60	46.80
Short-circuit current	$I_{sc}$ (A)	14.82	14.85	14.88	14.91	14.94

\*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)

## Bifacial electrical specifications

Parameter	705	710	715	720	725
Max. power front-side					
$P_{max}$ front (Wp)	740	776	746	781	751
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power					
$P_{max}$ equ (Wp)	740	776	746	781	751
Module efficiency	23.86	24.99	24.03	25.17	24.20
$\eta$ (%)	24.99	24.03	25.17	24.20	25.35
	24.37	25.53	23.54	25.70	

\*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	n-Type TOPCon technology, half-cut cells
No. of cells	132
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
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	37 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>
Fire rating	Class A (according to UL 790)

## Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of $P_{max}$	-0.29 %/°C
Temp. coefficient of $V_{oc}$	-0.24 %/°C
Temp. coefficient of $I_{sc}$	0.040 %/°C
Nom. operating cell temp. NOCT	43 ± 2°C

## Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	648 pcs / 40 HQ
Size / Pallet	1350 mm x 1140 mm x 2500 mm (Upright)
Weight	1364 kg / pallet

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