METEOR III

QUARTER-CUT CELL TECHNOLOGY

Wood Mackenzie Grade A | TIER1 BloombergNEF | SMM TIER1

Deutsche Qualität Garantiert

475W-485W

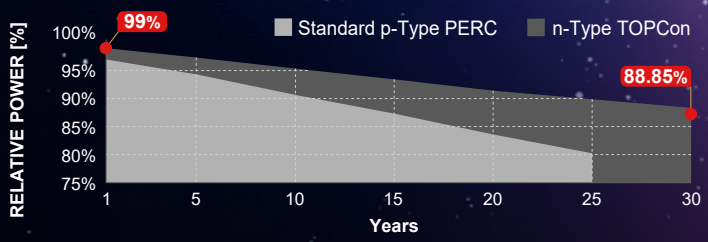
CMEQ-48BDS BIFACIAL DOUBLE-GLASS

24.27%
MAXIMUM EFFICIENCY

48x4
QUARTER-CUT



OUR PERFORMANCE WARRANTY



- Advanced N-TOPCon: Evolved TOPCon Cell Technology
- Better Performance Under Low-light Conditions
- Enhanced Rear-Side Generation
- Lower LCOE, Greater Value
- Higher CTM Performance

SYSTEM AND PRODUCT CERTIFICATIONS

ISO 9001:2015 | ISO 45001:2018 | ISO14001 | TÜVRheinland CERTIFIED

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

30 YEARS Performance Warranty

25 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.

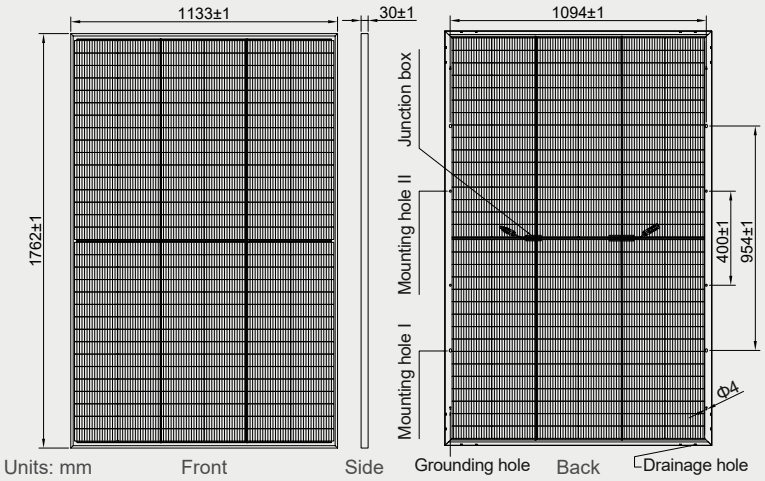
AESOLAR Since 2003

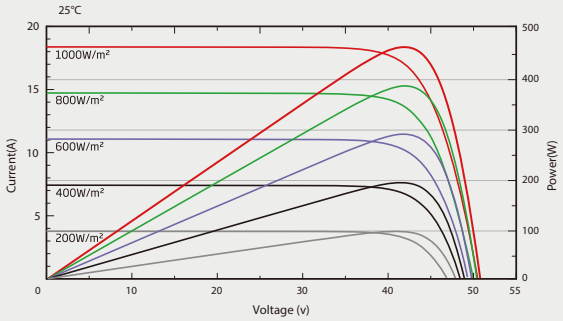
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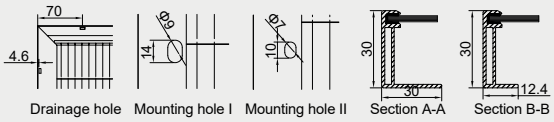
AE CMEQ-48BDS 475W-485W

QUARTER-CUT CELL TECHNOLOGY

BIFACIAL • DOUBLE-GLASS







Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	475	480	485
Maximum operating voltage	V_{MPP} (V)	31.05	31.17	31.29
Maximum operating current	I_{MPP} (A)	15.30	15.40	15.50
Open-circuit voltage	V_{oc} (V)	36.58	36.83	37.08
Short-circuit current	I_{sc} (A)	15.93	15.98	16.03
Module efficiency	η (%)	23.77	24.02	24.27
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 Pmax: ±3%

Electrical specifications (NMOT*):

Nominal max. power	P_{max} (Wp)	361	365	369
Maximum operating voltage	V_{MPP} (V)	29.19	29.30	29.43
Maximum operating current	I_{MPP} (A)	12.37	12.46	12.54
Open-circuit voltage	V_{oc} (V)	34.75	34.99	35.23
Short-circuit current	I_{sc} (A)	13.04	13.10	13.13

*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)

Electrical specifications (BNPI*):

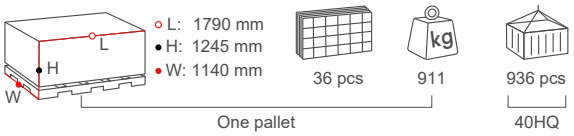
Nominal max. power	P_{max} (Wp)	529	534	540
Maximum operating voltage	V_{MPP} (V)	31.16	31.27	31.40
Maximum operating current	I_{MPP} (A)	16.98	17.08	17.20
Open-circuit voltage	V_{oc} (V)	36.68	36.93	37.18
Short-circuit current	I_{sc} (A)	17.15	17.82	17.87

*BNPI: Front Irradiance 1000W/m 2 , Rear Irradiance 135W/m 2 , Cell Temperature 25°C, AM=1.5

Mechanical and design specification

Cell type	n-Type TOPCon technology, quarter-cut cells
No. of cells	48×4
Bifaciality	85 ± 5%
Front cover	2.0 mm solar glass with AR coating, semi-tempered
Encapsulation	POE
Back cover	2.0 mm solar glass, semi-tempered
Junction box	IP68 rated
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	4 mm², N 1100mm/P 1100mm for landscape installation 4 mm², N 500mm/P 1100mm for portrait installation
Connectors	MC 4 compatible
Dimension	1762 mm x 1133 mm x 30 mm
Weight	24 kg
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

Packaging information



Temperature ratings

Operating temperature	-40 to +70°C
Temp. coefficient of P_{max}	-0.26 %/°C
Temp. coefficient of V_{oc}	-0.24 %/°C
Temp. coefficient of I_{sc}	0.046 %/°C
Nom. operating cell temp. NOCT	41 ± 3°C

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.

AESOLAR Since 2003

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