

Deutsche  
Qualität  
Garantiert



# HUNDER

POWERFUL, EFFICIENT, STEADY

30  
years  
Performance  
Guarantee

15  
years  
Product  
Warranty

Product  
Performance  
ASUE

Product  
Warranty  
ASUE

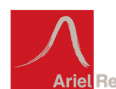
MONO-CRYSTALLINE PV MODULES  
SHINGLED TECHNOLOGY • MONO-FACIAL

## 425W-445W

### AE BME-46F Series



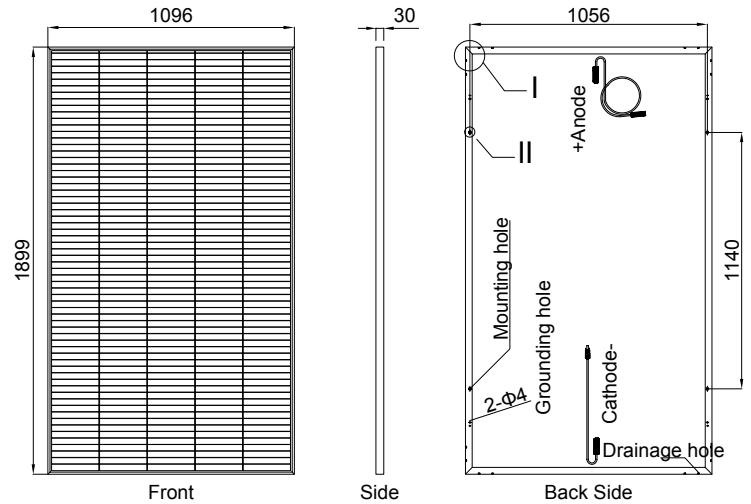
IEC 61215  
IEC 61730  
Regular Production Surveillance  
Type Tested and Monitored



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

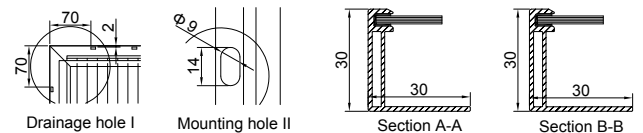
### Mechanical and design specification

|                 |  |
|-----------------|--|
| Cell type       | Mono c-Si PERC, Shingled cells, 210 mm         |
| No. of cells    | 320 (64x5)                                     |
| Glass           | 3,2 mm, high transmission, AR coated, tempered |
| Encapsulation   | EVA  |
| Back cover      | White Backsheet                                |
| Junction box    | IP 68 Rated, 2 bypass diodes                   |
| Frame           | 30 mm anodized Aluminium alloy, full black     |
| Cable           | Vertical +300 mm / -1000 mm or customized      |
| Connectors      | MC 4 / MC 4 compatible                         |
| Dimension       | 1899 mm x 1096 mm x 30 mm                      |
| Weight          | 21.8 kg  |
| Hail resistance | Max. Ø 25 mm at 23 m/s                         |
| Wind load       | 2400 Pa/ 244 kg/ m <sup>2</sup>                |
| Mechanical load | 5400 Pa/ 550 kg/ m <sup>2</sup>                |



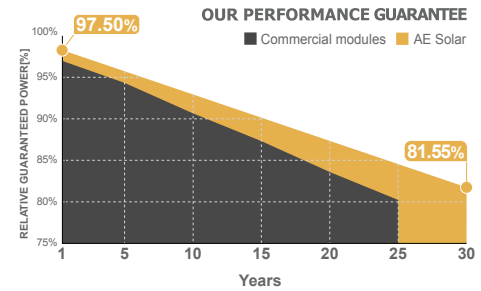
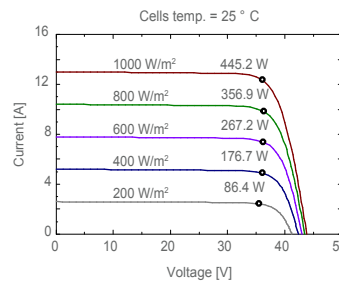
### Packaging information

|                         |                             |
|-------------------------|-----------------------------|
| Packaging configuration | 72 pcs / double pallets     |
| Loading capacity        | 864 pcs / 40 HQ             |
| Size / double pallets   | 1916 mm x 1125 mm x 2460 mm |
| Weight                  | 1650 kg / double pallets    |



### 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) | -0.27      |
| Temp.coefficient of I <sub>sc</sub>  | (%/°C) | 0.040      |
| Nom. operating temp. NOCT            | (°C)   | 42.3 ± 2   |



| Electrical specifications (STC*): |                       | AE425BME-46F | AE430BME-46F | AE435BME-46F | AE440BME-46F | AE445BME-46F |
|-----------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| Nominal Max. Power                | P <sub>max</sub> (Wp) | 425          | 430          | 435          | 440          | 445          |
| Maximum operating voltage         | V <sub>MPP</sub> (V)  | 36.0         | 36.1         | 36.2         | 36.3         | 36.4         |
| Maximum operating current         | I <sub>MPP</sub> (A)  | 11.81        | 11.92        | 12.02        | 12.13        | 12.23        |
| Open-circuit voltage              | V <sub>oc</sub> (V)   | 43.4         | 43.5         | 43.6         | 43.7         | 43.8         |
| Short-circuit current             | I <sub>sc</sub> (A)   | 12.56        | 12.68        | 12.79        | 12.90        | 13.01        |
| Module efficiency                 | η (%)                 | 20.42        | 20.66        | 20.90        | 21.14        | 21.38        |
| Power tolerance                   | (W)                   |              |              | 0~+5         |              |              |
| Maximum system Voltage            | (V)                   |              |              | 1500         |              |              |
| Maximum series fuse rating        | (A)                   |              |              | 25           |              |              |

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5)

| Electrical specifications (NMOT*): |                       | AE425BME-46F | AE430BME-46F | AE435BME-46F | AE440BME-46F | AE445BME-46F |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| Nominal Max. Power                 | P <sub>max</sub> (Wp) | 320          | 324          | 328          | 331          | 335          |
| Maximum operating voltage          | V <sub>MPP</sub> (V)  | 34.3         | 34.4         | 34.5         | 34.6         | 34.7         |
| Maximum operating current          | I <sub>MPP</sub> (A)  | 9.32         | 9.41         | 9.49         | 9.57         | 9.66         |
| Open-circuit voltage               | V <sub>oc</sub> (V)   | 41.4         | 41.5         | 41.6         | 41.7         | 41.8         |
| Short-circuit current              | I <sub>sc</sub> (A)   | 10.14        | 10.23        | 10.32        | 10.41        | 10.50        |

\*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.