AE BIFACIAL MONOCRYSTALLINE PV MODULES WITH TRANSPARENT BACKSHEET
AE ME - 120 Series 585W - 600W

120 CELLS

- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- NH₃ RESISTANT
- HIGHLY STABLE AND TOUGH

GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

PERFORMANCE GUARANTEE
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

CERTIFICATES
Lining with international standards, AE Solar Photovoltaic modules are tested and certified under extreme stress conditions and it can bear harsh environment influences.

OUR PERFORMANCE GUARANTEE

- AE Solar
- Commercial Guarantee

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<th>Years</th>
<th>AE Solar</th>
<th>Commercial Guarantee</th>
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<td>30</td>
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30 years Performance Guarantee
12 years Product Warranty
### TECHNICAL DATA

#### AE BIFACIAL SINGLE GLASS Series 585W - 600W

**AE585ME-120**
- Nominal Max. Power: 585 Wp
- Maximum power voltage: 33.80 V
- Maximum power current: 17.31 A
- Open-circuit voltage: 40.90 V
- Short-circuit current: 18.37 A
- Module efficiency: 20.7 (%)
- Operating temperature: -40 to +85°C
- Maximum system voltage DC: 1500 V (IEC)
- Maximum series fuse rating: 30 A
- Power tolerance: 0 ~ +5 W
- Temp. coefficients of Pmax (%/°C): -0.340
- Temp. coefficients of Voc (%/°C): -0.250
- Nom. Operating cell temp.(NOCT) (%/°C): 0.040
- Bifaciality: Glazing 70%

**AE590ME-120**
- Nominal Max. Power: 590 Wp
- Maximum power voltage: 34.00 V
- Maximum power current: 17.35 A
- Open-circuit voltage: 41.10 V
- Short-circuit current: 18.42 A
- Module efficiency: 20.8 (%)
- Operating temperature: -40 to +85°C
- Maximum system voltage DC: 1500 V (IEC)
- Maximum series fuse rating: 30 A
- Power tolerance: 0 ~ +5 W
- Temp. coefficients of Pmax (%/°C): -0.340
- Temp. coefficients of Voc (%/°C): -0.250
- Nom. Operating cell temp.(NOCT) (%/°C): 0.040
- Bifaciality: Glazing 70%

**AE595ME-120**
- Nominal Max. Power: 595 Wp
- Maximum power voltage: 34.20 V
- Maximum power current: 17.40 A
- Open-circuit voltage: 41.30 V
- Short-circuit current: 18.47 A
- Module efficiency: 21.0 (%)
- Operating temperature: -40 to +85°C
- Maximum system voltage DC: 1500 V (IEC)
- Maximum series fuse rating: 30 A
- Power tolerance: 0 ~ +5 W
- Temp. coefficients of Pmax (%/°C): -0.340
- Temp. coefficients of Voc (%/°C): -0.250
- Nom. Operating cell temp.(NOCT) (%/°C): 0.040
- Bifaciality: Glazing 70%

**AE600ME-120**
- Nominal Max. Power: 600 Wp
- Maximum power voltage: 34.40 V
- Maximum power current: 17.44 A
- Open-circuit voltage: 41.50 V
- Short-circuit current: 18.52 A
- Module efficiency: 21.2 (%)
- Operating temperature: -40 to +85°C
- Maximum system voltage DC: 1500 V (IEC)
- Maximum series fuse rating: 30 A
- Power tolerance: 0 ~ +5 W
- Temp. coefficients of Pmax (%/°C): -0.340
- Temp. coefficients of Voc (%/°C): -0.250
- Nom. Operating cell temp.(NOCT) (%/°C): 0.040
- Bifaciality: Glazing 70%

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

### MATERIAL CHARACTERISTICS

- **Cell type**: Gallium doped Mono-crystalline 210 mm x 105 mm
- **No. of cells**: 120 Cells (60 Full Cells)
- **Dimensions**: 2172 mm x 1303 mm x 35 mm
- **Weight**: 30.9 kg
- **Junction box**: IP 68 rated (3 bypass diodes)
- **Output cable**: 1 x 4.0 mm², 350 mm length or customised
- **Connector type**: MC4 / MC4 compatible
- **Frame**: Anodic oxidation coated aluminum
- **Hail resistance**: Max. Ø 25 mm, at 23 m/s
- **Wind load**: 2400 Pa / 244 kg/m²
- **Mechanical load**: 5400 Pa / 550 kg/m²

### PACKAGING INFORMATION

- **Packing configuration**: 31 pcs / pallet
- **Loading Capacity**: 527 pcs / 40HQ
- **Size / pallet**: 1350 x 1145 x 2310 mm³
- **Weight**: 902 kg / pallet

### DIMENSIONS

![Diagram](image)

#### CERTIFICATES

- TÜV Rheinland (Precisely Right.)
- Lloyd’s Underwriters
- CE Designation
- IEC 61701:2011
- IEC 61215:2012
- IEC 61646:2012
- IEC 61730:2013

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