



It's time to save the world !

AE PowerPlus Module

AE P6-60 Series 235W – 260W

The main features at a glance



- ◆ High performance modules of poly-crystalline solar cells
- ◆ Connection box with 6 bypass diodes
- ◆ 3,2 mm thick safety glass of high transparence
- ◆ 12 year product warranty
- ◆ 12 years guarantee at 90% rated performance
30 years guarantee at 80% rated performance
- ◆ Certified from: TÜV, IEC 61215, IEC 61730, CE, ISO
- ◆ 40 mm aluminum frame
- ◆ Up to + 3% positive power tolerance
- ◆ Cell efficiency up to 17.81 %

Quality features

The solar cells are embedded in UV-resistant EVA plastic. The entire module is protected against dust and splash water (IP67). This ensures the long-term outdoor use. Each module is optically, mechanically, and electrically tested.

Through regular monitoring and measurements, we ensure that all the electrical, mechanical, and optical requirements comply with the highest quality standards.

The 40 mm thick frame of anodized aluminum ensures excellent stability even in storm and snow load zone 3.



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Technical Data

| Electrical Data | | AE 235P-60 | AE 240P-60 | AE 245P-60 | AE 250P-60 | AE 255P-60 | AE 260P-60 |
|-----------------------|---------|------------|------------|------------|------------|------------|------------|
| Nominal power/Wattage | Pm (Wp) | 235 | 240 | 245 | 250 | 255 | 260 |
| Open circuit voltage | Voc (V) | 36.60 | 36.90 | 37.20 | 37.50 | 38.10 | 38.50 |
| Short-circuit current | Isc (A) | 8.31 | 8.39 | 8.44 | 8.54 | 8.58 | 8.65 |
| Voltage at max power | Vmp (V) | 30.60 | 30.90 | 31.20 | 31.60 | 32.10 | 32.50 |
| Current at max power | Imp (A) | 7.68 | 7.77 | 7.85 | 7.91 | 7.94 | 8.01 |
| Module efficiency | (%) | 14.44 | 14.75 | 15.06 | 15.34 | 15.67 | 15.98 |
| Cells efficiency | (%) | 16.09 | 16.44 | 16.78 | 17.12 | 17.46 | 17.81 |

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.

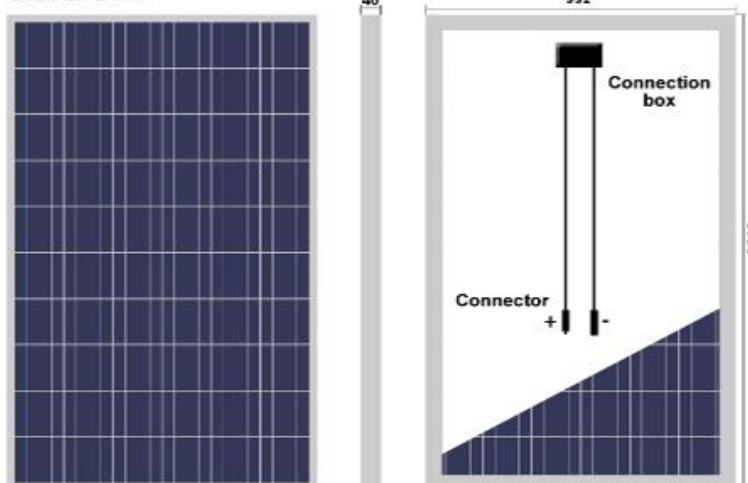


| | | |
|-----------------------|--------|-----------|
| System voltage | (V) | 1000 |
| Temp. coefficient Voc | (%/°C) | -0.348 |
| Temp. coefficient Isc | (%/°C) | +0.031 |
| Temp. coefficient Pm | (%/°C) | -0.460 |
| Operating temperature | (°C) | -40 to 85 |
| NOCT | (°C) | 48 +/- 2 |

Technical Data

| | |
|----------------------------|---------------------------------|
| Dimensions (L x W x H, mm) | 1640 x 992 x 40 |
| Weight (kg) | 20.1 |
| Cell dimensions (mm) | 156 x 156 |
| No of cells / Assembly | 60 / 6 x 10 |
| Type of cells | Poly-crystalline |
| Hail resistance | Max. Ø 25 mm at 23 m/s |
| Wind load | 2000 Pa / 204 kg/m ² |
| Mechanical load | 5000 Pa / 510 kg/m ² |

Scale unit: mm



Connexion

| | |
|--|-----------------------|
| Connection box | 6 bypass diodes, IP67 |
| Wire cross section (Ø, mm ²) | 4.0 |
| Cable length (mm) | 900 |
| Connector type | MC4 / MC4 compatible |

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