

For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

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EnergyPal

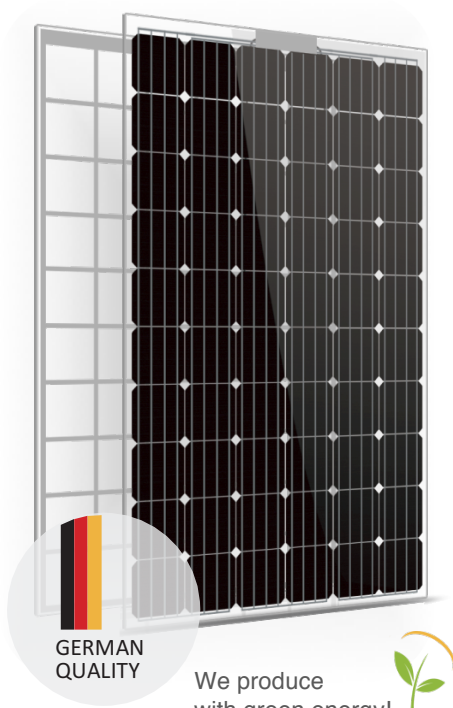
Solar Panel Guide Specification Data Sheet

**AE Solar
AE DGM6-60-270-285W
AE285DGM6-60**

Also available on the web at
EnergyPal.com/ae-solar-solar-panels/ae285dgm6-60

AE DOUBLE-GLASS MODULE

AE DGM6-60 Series 270W-285W



We produce with green energy!



LIGHTEST DOUBLE-GLASS MODULE WORLDWIDE

Ultra-thin thermally strengthened with 2mm glass



HARSH WEATHER RESISTANCE

Absolute water-proof, anti-corrosion by acid, alkaline and ammonia, anti-friction, better thermal dissipation and 30+ years hassle free performance



PID FREE

Potential induced degradation (PID) Free Guaranteed



MICRO-CRACK FREE

No micro-cracks during rough transportation, complicated handling at installation and during lifetime module operation



FIRE CLASS A

Glass-Glass design protects the module from the damages caused by arc and hot spots, eliminating potential dangers of fire



SELF-CLEANING EFFECT

Frameless design, no dirt at the edges of frame



GERMAN QUALITY

AE Solar photovoltaic modules are manufactured using high-quality materials, automated machine, German Technology and Standards



PLUS-SORTING

Higher yield due to plus-sorting of 0 to +5W guarantees the high system efficiency and yield stability



PERFORMANCE GUARANTEE

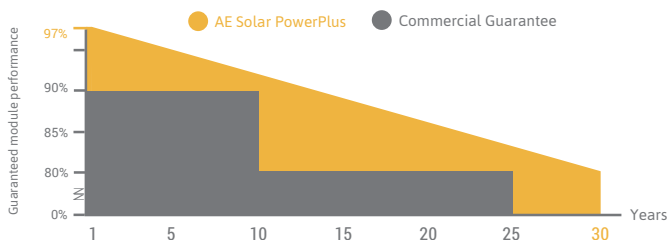
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty



CERTIFICATES

Lining with International Standards, AE Solar Photovoltaic modules are tested and certified under extreme stress and it can bear harsh environmental influences

OUR PERFORMANCE GUARANTEE



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TECHNICAL DATA

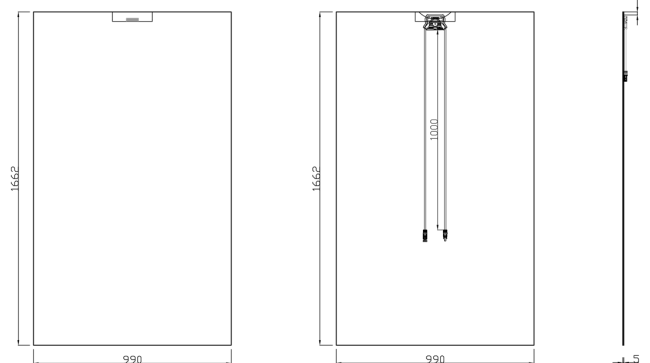
| | | AE270DGM6-60 | AE275DGM6-60 | AE280DGM6-60 | AE285DGM6-60 |
|--|-----------------------|--------------|--------------|--------------|--------------|
| Maximum power | P _{max} (Wp) | 270 | 275 | 280 | 285 |
| Maximum power voltage | V _{mp} (V) | 31.15 | 31.58 | 31.79 | 32.06 |
| Maximum power current | I _{mp} (A) | 8.67 | 8.71 | 8.81 | 8.89 |
| Open-circuit voltage | V _{oc} (V) | 38.43 | 38.67 | 39.15 | 39.47 |
| Short-circuit current | I _{sc} (A) | 9.02 | 9.18 | 9.28 | 9.37 |
| Module efficiency | % | 16.4 | 16.7 | 17.0 | 17.3 |
| Power tolerance | P _{max} (W) | | - 0 / + 5 | | |
| Maximum system voltage DC | V | | 1000 | | |
| Operating temperature | °C | | -40 to +85 | | |
| Temperature coefficients of P _{max} | %/°C | | -0.40 | | |
| Temperature coefficients of V _{oc} | %/°C | | -0.30 | | |
| Temperature coefficients of I _{sc} | %/°C | | 0.032 | | |
| Nominal operating cell temp. (NOCT) | °C | | 45±2 | | |

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.

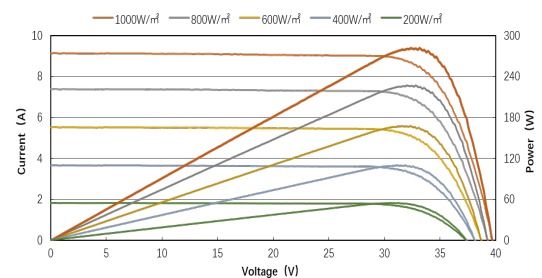
MATERIAL CHARACTERISTICS

| | |
|------------------|---|
| Cell Type | Mono-crystalline |
| Cell Dimension | 156.75mm × 156.75mm |
| Module Dimension | 1662mm × 990mm × 5mm (J-box not included) |
| Weight | 19.6kg |
| Front Glass | 2mm tempered AR glass |
| Encapsulant | POE |
| Back Glass | 2mm tempered glass / 2mm ceramic coated glass |
| Junction Box | IP67 (three bypass diodes) |
| Cable | 4.0mm ² |
| Connector | LCS-R1 (MC4 equivalent) |
| Wind load | 2400Pa / 244kg / m ² |
| Mechanical load | 5400Pa / 550kg / m ² |

DRAWINGS & PERFORMANCE



I-V & P-V curve AE DGM6-60



Excellent performance at 200W/m²(AM 1.5, 25 °C): the conversion efficiency could be 96.6% of STC

PACKAGING INFORMATION

| | |
|-----------------------|----------------|
| Packing configuration | 38pcs / pallet |
| Loading capacity | 988pcs / 40HQ |

