



AC-270M/156-60S
 AC-275M/156-60S
 AC-280M/156-60S
 AC-285M/156-60S
 AC-290M/156-60S

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-AXITEC-
 high quality german solar brand

AXIpremium

60 cell/monocrystalline photovoltaic modules
 High performance photovoltaic modules

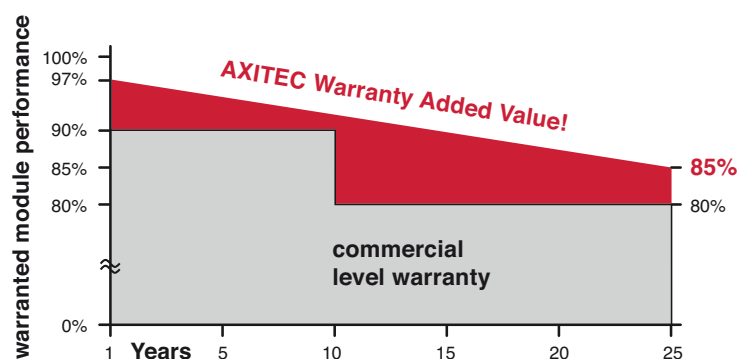
The advantages:

- 12** Years 12 years manufacturer's warranty
- A-Max** Highest performance due to specifically selected technologies and materials
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 5.400 Pa** Maximum 5400 Pa snow load
- 100%** 100% electroluminescence inspection
- Soft Grip** High stability due to AXITEC-Soft-Grip-Seam aluminium frame construction
- IP 67** High quality junction box and connector systems



Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer's guarantee on 90 % of the nominal performance
- 25 years manufacturer's guarantee on 85 % of the nominal performance



Distributed by:

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Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

| Type | Nominal output P _{mpp} | Nominal voltage U _{mpp} | Nominal current I _{mpp} | Short circuit current I _{sc} | Open circuit voltage U _{oc} | Module conversion efficiency |
|-----------------|------------------------------------|-------------------------------------|-------------------------------------|--|---|---------------------------------|
| AC-270M/156-60S | 270 Wp | 30,94 V | 8,80 A | 9,41 A | 39,26 V | 16,60 % |
| AC-275M/156-60S | 275 Wp | 31,20 V | 8,86 A | 9,50 A | 39,32 V | 16,90 % |
| AC-280M/156-60S | 280 Wp | 31,50 V | 8,95 A | 9,55 A | 39,45 V | 17,21 % |
| AC-285M/156-60S | 285 Wp | 31,59 V | 9,09 A | 9,68 A | 39,56 V | 17,52 % |
| AC-290M/156-60S | 290 Wp | 31,71 V | 9,16 A | 9,70 A | 39,70 V | 17,83 % |

Design

| | |
|-----------|---|
| Frontside | 3,2 mm hardened, low-reflection white glass |
| Cells | 60 monocrystalline high efficiency cells 156 mm x 156 mm (6") |
| Backside | Composite film |
| Frame | 35 mm silver anodized aluminium frame |

Mechanical data

| | |
|-----------|--------------------|
| L x W x H | 1640 x 992 x 35 mm |
| Weight | 18,0 kg with frame |

Power connection

| | |
|----------------|---|
| Socket | Protection Class IP67 (3 bypass diodes) |
| Wire | approx. 1,1 m, 4 mm ² |
| Plug-in system | Plug/socket IP67 |

Limit values

| | |
|--|------------------------------|
| System voltage | 1000 VDC |
| NOCT (nominal operating cell temperature)* | 45°C +/-2K |
| Max. load-carrying capacity | 5400 N/m ² |
| Reverse current feed IR | 16,0 A |
| Permissible operating temperature | -40°C to 85°C / -40F to 185F |

(No external voltages greater than U_{oc} may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1,5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

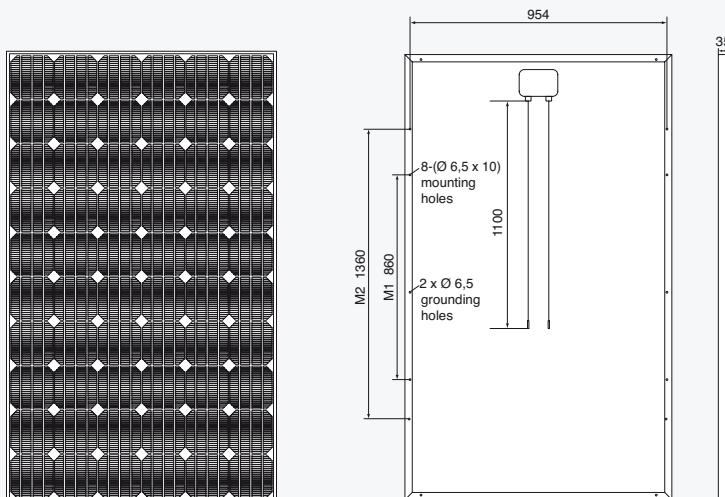
| | |
|-------------------------|-----------|
| Voltage U _{oc} | -0,30 %/K |
| Current I _{sc} | 0,04 %/K |
| Output P _{mpp} | -0,40 %/K |

Low-light performance (Example for AC-260M/156-60S)

| I-U characteristic curve | Current I _{pp} | Voltage U _{pp} |
|--------------------------|-------------------------|-------------------------|
| 200 W/m ² | 1,71 A | 30,00 V |
| 400 W/m ² | 3,41 A | 30,10 V |
| 600 W/m ² | 5,18 A | 30,18 V |
| 800 W/m ² | 6,89 A | 30,36 V |
| 1000 W/m ² | 8,60 A | 30,42 V |

Packaging

| | |
|--------------------------------|-----|
| Module pieces per pallet | 30 |
| Module pieces per HC-container | 840 |



All dimensions in mm