



AC-285M/156-60SE
 AC-290M/156-60SE
 AC-295M/156-60SE
 AC-300M/156-60SE

www.axitecsolar.com

AXITEC
 high quality german solar brand

AXIworldblackpremiumplus SE

60 cell monocrystalline
 High performance photovoltaic module
 optimised by SolarEdge

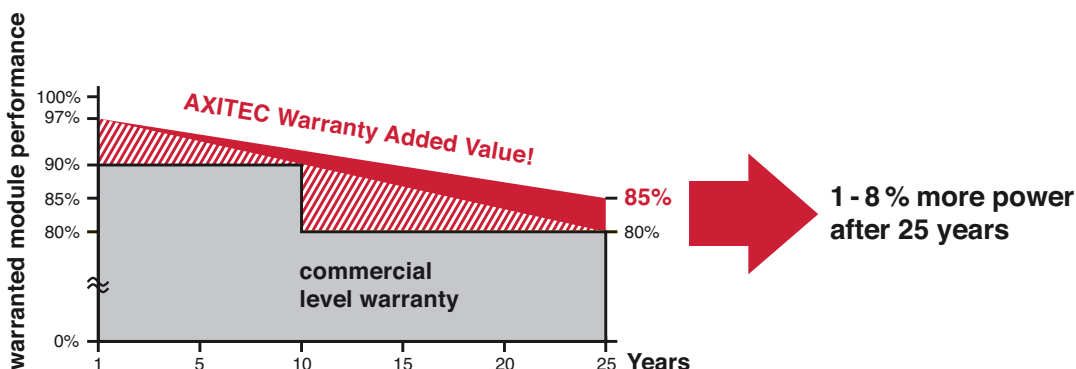
The advantages:

- 12** Years 12 years manufacturer's warranty
- +[↑]** Wp Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- ↓** 5.400 Pa Maximum 5400 Pa snow load
- ↓** \$ BOS Lower BOS costs thanks to 30% longer strings
- ↗** MPP Optimised energy output by maximised power by each module
- +** SAFETY High security by deactivation of module power



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



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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 _{mp}	Nominal voltage U _{mp}	Nominal current I _{mp}	Short circuit current I _{sc}	Open circuit voltage U _{oc}	Module conversion efficiency
AC-285M/156-60SE	285 Wp	31,59 V	9,09 A	9,68 A	39,56 V	17,43 %
AC-290M/156-60SE	290 Wp	31,71 V	9,16 A	9,70 A	39,70 V	17,74 %
AC-295M/156-60SE	295 Wp	31,80 V	9,29 A	9,75 A	39,95 V	18,04 %
AC-300M/156-60SE	300 Wp	32,16 V	9,34 A	9,82 A	40,08 V	18,35 %

Stringlängen (automatisch computergeneriert vom SolarEdge Site Designer)

Module Power		285	290	295	300
MINIMALE Stringlänge mit SolarEdge Wechselrichter	1ph	8			
	3ph	16			
MAXIMALE Stringlänge mit SolarEdge Wechselrichter	1ph	18	18	17	17
	3ph	39	38	38	38
Stringlänge ohne SolarEdge Wechselrichter		Gemäß Regeln zur Wechselrichterauslegung			

Output Voltages and Currents

Operating Output Voltages when connected to SolarEdge Inverter	5 - 60 Vdc
Operating Output Voltages when connected to Non-SolarEdge Inverter	5-Voc of module Vdc
Maximum Output Current when connected to SolarEdge Inverter	15 Adc
Maximum Output Current when connected to Non-SolarEdge Inverter	10 Adc
Output in Standby mode with SolarEdge Inverter or with SMI and Non-SolarEdge Inverter (when disconnected from Inverter or Inverter off)	1 Vdc

Junction Box Standard Compliance

Fire Safety	VDE-AR-E 2100-712:2013-05
PV Junction Box Safety	IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA)
PV Junction Box	EN50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA)

Design

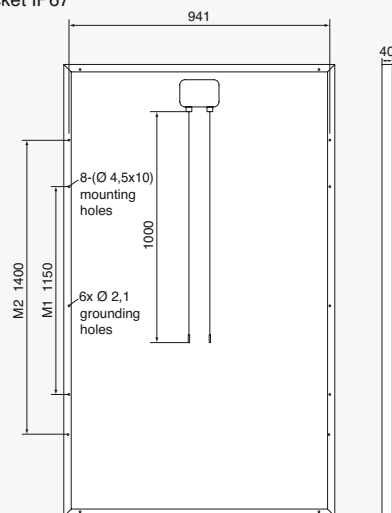
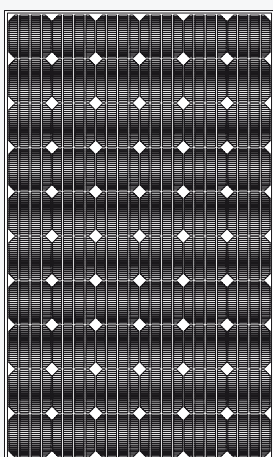
Frontside	3,2 mm hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 156 mm x 156 mm (6")
Backside	Composite film
Frame	40 mm black anodized aluminium frame

Mechanical data

L x W x H	1650 x 991 x 40 mm
Weight	19,5 kg with frame

Power connection

Socket	SolarEdge OPJ 300-LV
Wire	approx. 1,0 m, 6 mm ²
Plug-in system	Plug/socket IP67



All dimensions in mm

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	15,0 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 _{mp}	-0,40 %/K

Low-light performance (Example for AC-285M/156-60SE)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,86 A	30,10 V
400 W/m ²	3,74 A	30,30 V
600 W/m ²	5,50 A	31,00 V
800 W/m ²	7,28 A	31,40 V
1000 W/m ²	9,09 A	31,59 V