



AC-300T/156-60S
 AC-305T/156-60S
 AC-310T/156-60S
 AC-315T/156-60S

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AXITEC
 high quality german solar brand

AXIperfect BLK

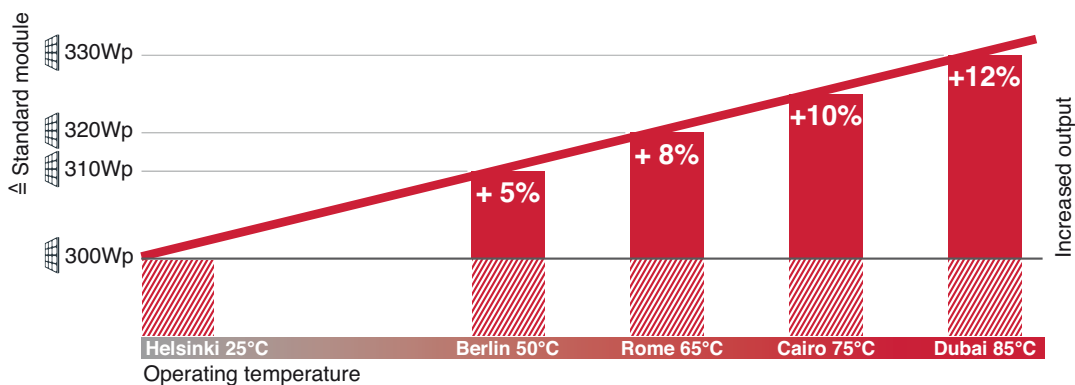
60 cell/hybrid photovoltaic modules
 High performance photovoltaic modules

The advantages:

- 12** Years 12 years manufacturer's warranty
- 12%** Efficiency 12% higher performance due to low temperature coefficients
- 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
- IP 67** High quality junction box and connector systems



Increased output of the **AXIperfect BLK 300Wp** compared to a standard 300Wp module, as a result of improved temperature coefficient.



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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-300T/156-60S	300 Wp	36,50 V	8,22 A	8,95 A	43,40 V	18,44 %
AC-305T/156-60S	305 Wp	36,80 V	8,29 A	9,00 A	43,50 V	18,75 %
AC-310T/156-60S	310 Wp	37,10 V	8,36 A	9,05 A	43,70 V	19,05 %
AC-315T/156-60S	315 Wp	37,40 V	8,42 A	9,12 A	43,90 V	19,36 %

Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	60 hybrid 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	1640 x 992 x 40 mm
Weight	20,0 kg with frame

Power connection

Socket	Protection Class IP65 (3 bypass diodes)
Wire	approx. 1,2 m, 4 mm ²
Plug-in system	Plug/socket IP67, Amphenol H4

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	48°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}	-0,25 %/K
Current I _{sc}	0,04 %/K
Output P _{mpp}	-0,26 %/K

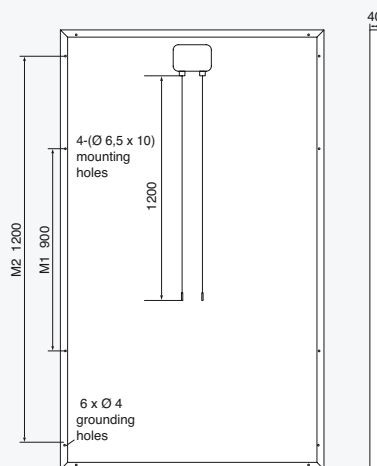
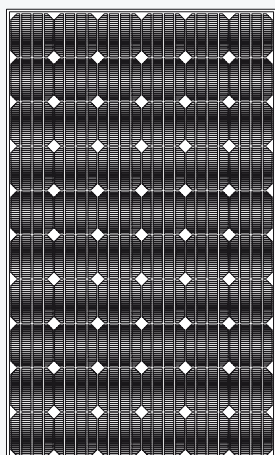
Low-light performance

 (Example for AC-310T/156-60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,66 A	34,90 V
400 W/m ²	3,45 A	35,90 V
600 W/m ²	4,90 A	36,00 V
800 W/m ²	6,80 A	36,80 V
1000 W/m ²	8,36 A	37,10 V

Packaging

Module pieces per pallet	25
Module pieces per HC-container	700



All dimensions in mm