



430 - 455 Wp

AXITEC

high quality german solar brand

25
YEARS
85%

AXIpremium XL HC

High performance solar module
144 halfcell, monocrystalline

The advantages:

- 15** Years 15 years manufacturer's warranty
- HC** Highest module performance through Half-Cut-technology and tested materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 2.400 Pa** Maximum 2400 Pa snow load
- 100%** 100% electroluminescence inspection
- IP 68** 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

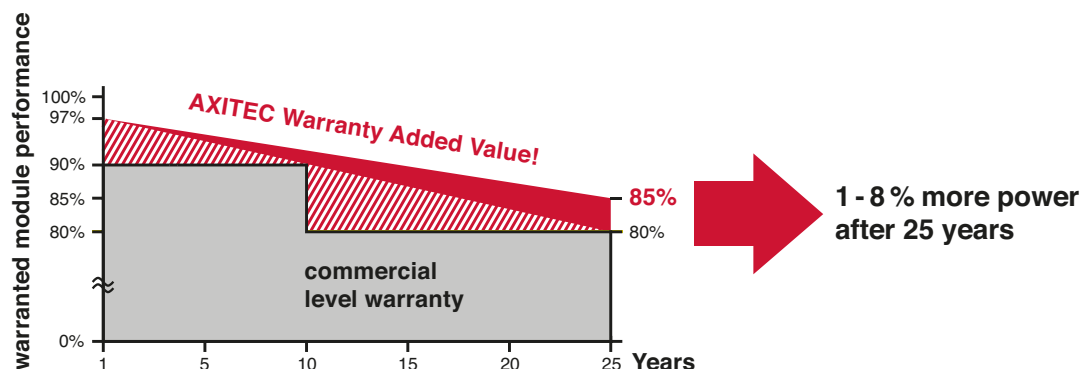


Fig. similar 144MHEN200831A

AXIpremium XL HC 430 - 455 Wp

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-430MH/144V | 430 Wp | 40,59 V | 10,60 A | 11,21 A | 49,22 V | 19,78 % |
| AC-435MH/144V | 435 Wp | 40,79 V | 10,67 A | 11,28 A | 49,42 V | 20,01 % |
| AC-440MH/144V | 440 Wp | 40,99 V | 10,74 A | 11,35 A | 49,62 V | 20,24 % |
| AC-445MH/144V | 445 Wp | 41,19 V | 10,81 A | 11,41 A | 49,86 V | 20,47 % |
| AC-450MH/144V | 450 Wp | 41,39 V | 10,88 A | 11,48 A | 50,10 V | 20,70 % |
| AC-455MH/144V | 455 Wp | 41,61 V | 10,94 A | 11,54 A | 50,34 V | 20,93 % |

Design

| | |
|-----------|---|
| Frontside | 3,2 mm hardened, low-reflection white glass |
| Cells | 144 monocrystalline high efficiency cells |
| Backside | Composite film |
| Frame | 35 mm silver aluminium frame |

Mechanical data

| | |
|-----------|---------------------|
| L x W x H | 2094 x 1038 x 35 mm |
| Weight | 23,8 kg with frame |

Power connection

| | |
|----------------|---|
| Socket | Protection Class IP68 |
| Wire | approx. 1,2 m, 4 mm ² |
| Plug-in system | Plug/socket IP68, Stäubli MC4 / MC4 pluggable |

Limit values

| | |
|--|------------------------------|
| System voltage | 1500 VDC |
| NOCT (nominal operating cell temperature)* | 45°C +/-2K |
| Max. load-carrying capacity | 2400 N/m ² |
| Reverse current feed IR | 20,0 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

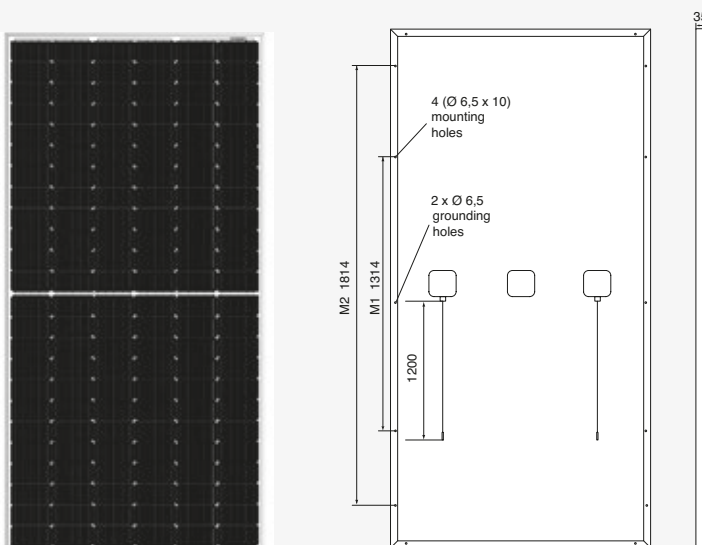
| | |
|-------------------------|-----------|
| Voltage U _{oc} | -0,27 %/K |
| Current I _{sc} | 0,048 %/K |
| Output P _{mpp} | -0,35 %/K |

Low-light performance (Example for AC-455MH/144V)

| I-U characteristic curve | Current I _{pp} | Voltage U _{pp} |
|--------------------------|-------------------------|-------------------------|
| 200 W/m ² | 2,24 A | 40,05 V |
| 400 W/m ² | 4,51 A | 40,51 V |
| 600 W/m ² | 6,74 A | 40,82 V |
| 800 W/m ² | 8,91 A | 41,17 V |
| 1000 W/m ² | 10,94 A | 41,61 V |

Packaging

| | |
|--------------------------------|-----|
| Module pieces per pallet | 30 |
| Module pieces per HC-container | 660 |



All dimensions in mm