

# 530 - 555 Wp

# -AXITEC®

# AXI premium XXL HC

High performance solar module 144 halfcell, monocrystalline



**German-American-Engineering** 

## The advantages:



15 years Manufacturer's warranty



High module performance through Half-Cut-technology and selected materials



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



100% visual electroluminescence inspection in production



High stability due to innovative frame design



High quality junction box and connector systems

# **Exclusive linear AXITEC high performance guarantee!**

level warranty

10

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



warranted module performance AXITEC Warranty Added Value! 100% 90% 1 - 8 % more power 85% after 25 years 80% commercial



Conforms to UL STD No.1703 Certified to ULC/ORD Std. C1703

144MHUSA220516A

25 Years



# AXIpremium XXL HC 550 - 555 Wp

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

Туре	Nominal output Pmpp	Nominal voltage Umpp	Nominal current	Short circuit current lsc	Open circuit voltage Uoc	Module conversion efficiency
AC-530MH/144V	530 Wp	41.31 V	12.83 A	13.72 A	49.30 V	20.52 %
AC-535MH/144V	535 Wp	41.47 V	12.91 A	13.79 A	49.45 V	20.71 %
AC-540MH/144V	540 Wp	41.64 V	12.97 A	13.86 A	49.60 V	20.90 %
AC-545MH/144V	545 Wp	41.80 V	13.04 A	13.93 A	49.75 V	21.10 %
AC-550MH/144V	550 Wp	41.96 V	13.11 A	14.00 A	49.90 V	21.29 %
AC-555MH/144V	555 Wp	42.11 V	13.18 A	14.07 A	50.05 V	21.48 %

Design

Frontside 0.13 inch (3.2 mm) hardened, low-reflection white glass

Cells 144 monocrystalline high efficiency cells

Backside Composite film

Frame 1.38 inch (35 mm) silver aluminium frame

Mechanical data

L x W x H 89.68 x 44.64 x 1.38 inch ( 2278 x 1134 x 35mm)

Weight 61.73 lbs (28 kg) with frame

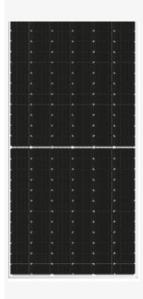
#### **Mechanical load**

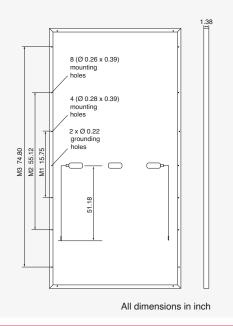
Design load (pressure/suction) 33.3 PSF / 33.3 PSF Test load (pressure/suction) 50 PSF / 50 PSF

#### **Power connection**

Socket Protection Class IP68
Wire 51.18 inch, AWG 12

Plug-in system Plug/socket IP68, Stäubli MC4 / Stäubli EVO2





#### **Limit values**

System voltage 1500 VDC (UL) 1000 VDC (IEC)

Module Fire Performance TYPE 1 (UL 1703)

or CLASS C (IEC 61730)

NOCT (nominal operating cell temperature)\* 45°C +/-2K Reverse current feed IR 25.0 A

Permissible operating

temperature -40°C to 85°C / -40F to 185F

(No external voltages greater than Vo 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 Uoc
 -0.25 %/K

 Current Isc
 0.048 %/K

 Output Pmpp
 -0.35 %/K

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

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m <sup>2</sup>	2.69 A	40.53 V
400 W/m <sup>2</sup>	5.43 A	40.99 V
600 W/m <sup>2</sup>	8.12 A	41.31 V
800 W/m <sup>2</sup>	10.73 A	41.67 V
1000 W/m <sup>2</sup>	13.18 A	42.11 V

#### **Packaging**

Module pieces per pallet 31
Module pieces per HC-container 620