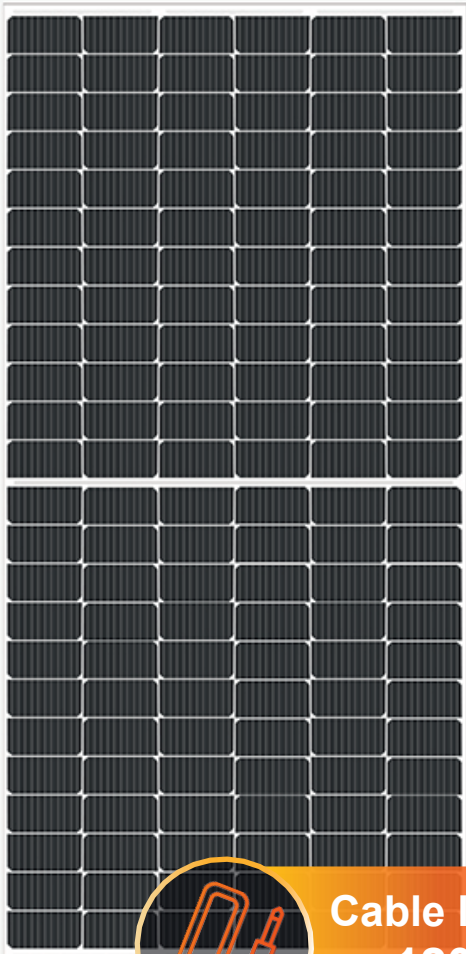


AXM144-11-182-545



AXIOMA

ENERGY



**Cable length
1200mm**



182mm 11 Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature



Mono Half-cell Module

Reduced resistance between cells
Less micro cracks, higher output power



Double electroluminescence (EL) tests

Carefully inspected before and after lamination to guarantee fault-free modules



Outstanding mechanical load resistance

2400 Pa wind load, 5400 Pa snow load



High performance under low light

Works at cloudy, rainy days



Anti-PID(potential induced degradation)

Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours



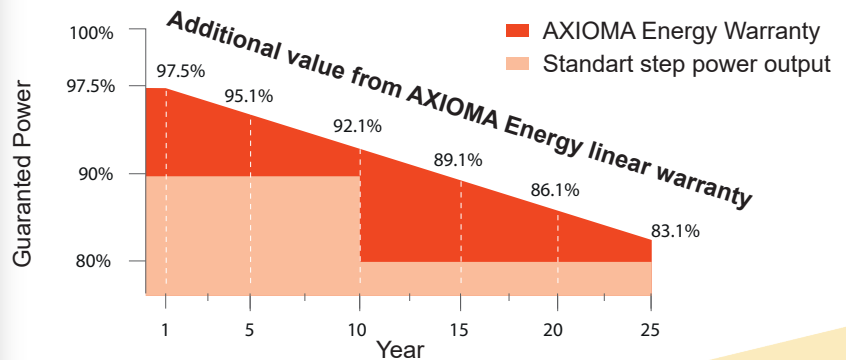
Positive power tolerance (0~+5W)

25-YEAR

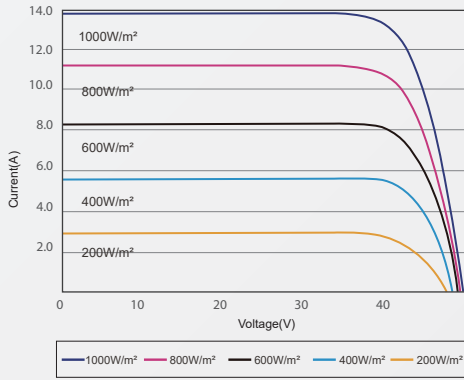
12-YEAR

LINEAR WARRANTY

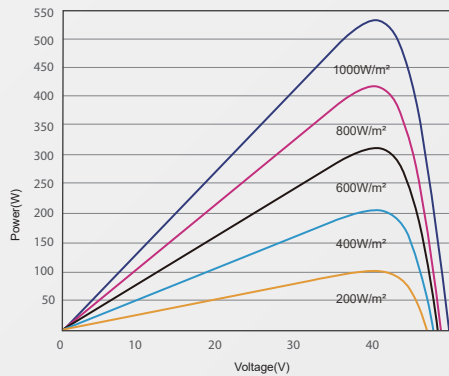
PRODUCT WARRANTY



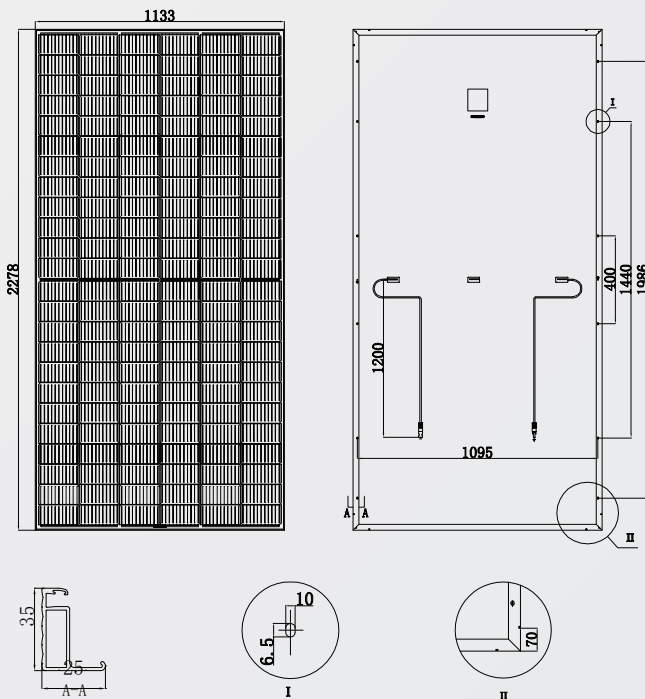
>> I-V CURVE



I-V CURVES OF PV MODULE(545W)



P-V CURVES OF PV MODULE(545W)



Please read the instruction manual in this entirety before handing, installing, and operating AXIOMA ENERGY modules. Due to continuous innovation, research and improvement, the specification is subject to change without prior notice.

>> ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			530	535	540	545	550
Power Output	P _{max}	W	530	535	540	545	550
Power Tolerance	ΔP _{max}	W	0/+5W				
Module Efficiency	η _m	%	20,54	20,73	20,93	21,12	21,31
Voltage at P _{max}	V _m	V	40,47	40,6	40,73	40,86	40,99
Current at P _{max}	I _m	A	13,11	13,18	13,26	13,34	13,42
Open-Circuit Voltage	V _{oc}	V	49,02	49,18	49,34	49,5	49,65
Short-Circuit Current	I _{sc}	A	13,79	13,87	13,96	14,04	14,13

STC: 1000W/m² irradiance, 25°C module temperature, AM1.5

>> THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P _{max}	γ	%/°C	-0,348
Temperature Coefficient of V _{oc}	β _{voc}	%/°C	-0,282
Temperature Coefficient of I _{sc}	α _{isc}	%/°C	0,05

>> OPERATING CONDITIONS

Max. System Voltage	1500V
Max. Series Fuse Rating	25A
Operating Temperature Range	-40°C ~ 85°C
Max static snow load	5400 Pa
Max static wind load	2400 Pa
Application Class	A

>> CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	MBB-182×91mm(Mono-Crystalline Silicon)
Encapsulant(material)	ethylene vinyl acetate (EVA)
Frame(material/anodization color)	anodized aluminum
Junction Box(protection degree)	IP68
Cable(length/cross-sectional area)	4mm ² /1200mm
Plug Connector	MC4 compatible

>> GENERAL CHARACTERISTICS

Dimension(L/W/H)	2278x1133x35 mm
Weight	28 kg

>> PACKING CONFIGURATION

Pieces per Pallet	30 pcs
Pieces per Container	600 pcs

>> INTERNATIONAL CERTIFICATES

- TÜV SÜD, TÜV NORD, UL, CE, JET, CEC
- MCS, CQC, IMERTRO, NRE, KS
- ISO9001:2015
- ISO14001:2015
- BS OHSAS 18001:2007