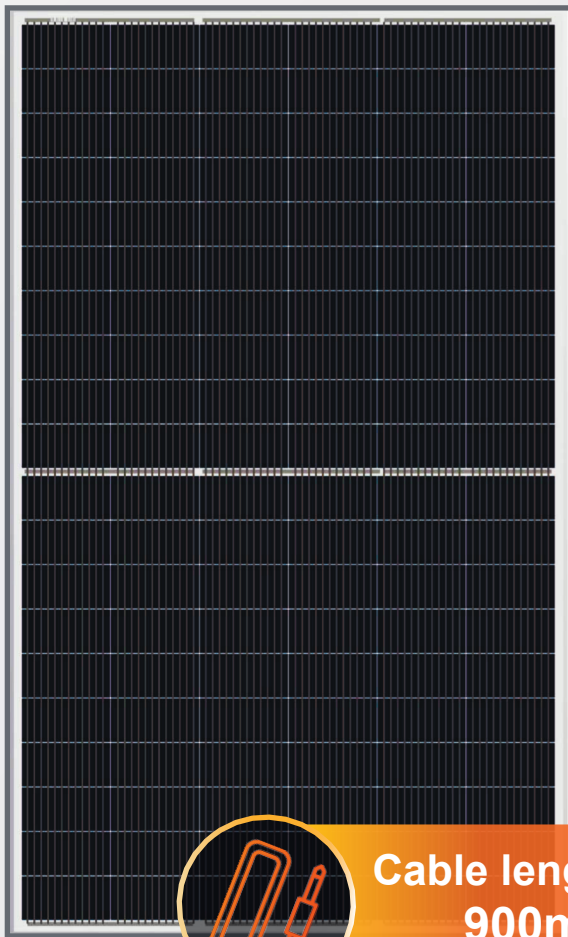


AXP120-12-156-290



AXIOMA

ENERGY



**Cable length
900mm**



12 Busbar Solar Cell

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



Poly 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

3800 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



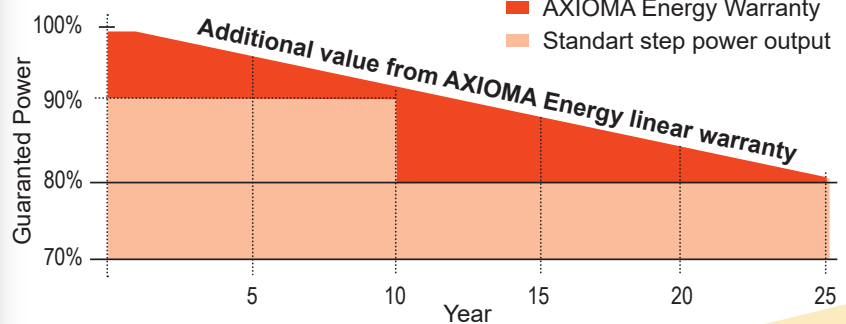
Positive power tolerance (0~+5W)

25-YEAR

LINEAR WARRANTY

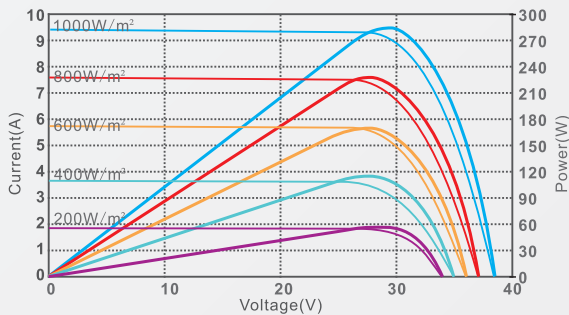
12-YEAR

PRODUCT WARRANTY



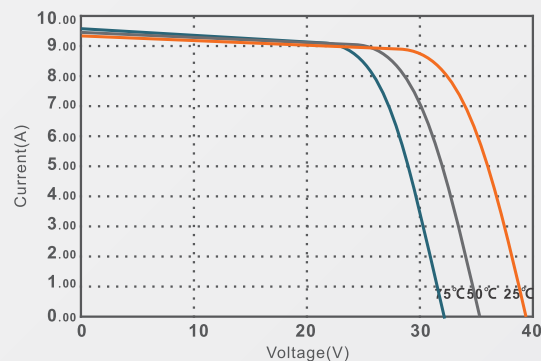
» I-V CURVE

I-V characteristics at different irradiances

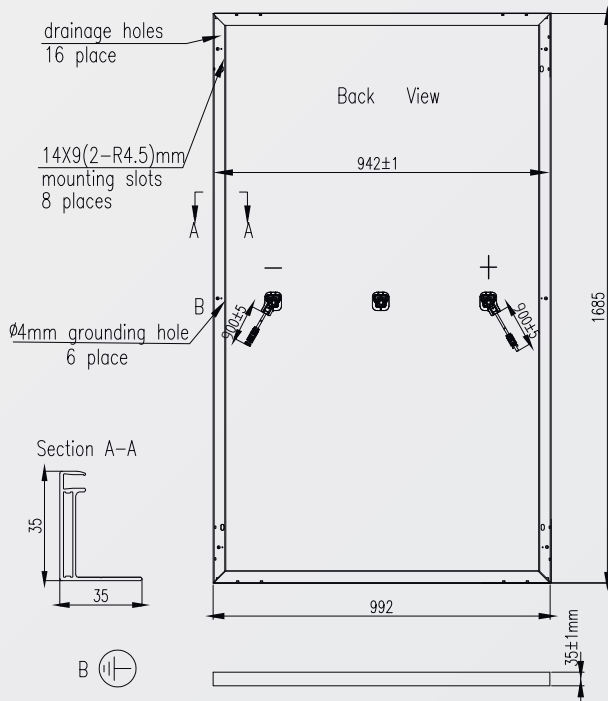


AXP120-12-156-290

I-V characteristics at different temperature



AXP120-12-156-290



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			AXP120-12-156-285	AXP120-12-156-290	AXP120-12-156-295
Power Output	P _{max}	W	285	290	295
Power Tolerance	ΔP _{max}	W	0/+5W		
Module Efficiency	η _m	%	17.41	17.72	18.02
Voltage at P _{max}	V _m	V	31.4	31.6	31.8
Current at P _{max}	I _m	A	9.08	9.18	9.28
Open-Circuit Voltage	V _{oc}	V	38.6	38.8	39.1
Short-Circuit Current	I _{sc}	A	9.48	9.58	9.75

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

» THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.390
Temperature Coefficient of V _{oc}	β _{voc}	%/°C	-0.290
Temperature Coefficient of I _{sc}	α _{isc}	%/°C	+0.049

» OPERATING CONDITIONS

Max. System Voltage	1000V/1500V
Max. Series Fuse Rating	15A
Operating Temperature Range	-40°C ~ 85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	A

» CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	120/polycrystalline / 78x156mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP67
Cable(length/cross-sectional area)	900mm/4mm ²
Plug Connector	MC4 compatible

» GENERAL CHARACTERISTICS

Dimension(L/W/H)	1685/992/35mm
Weight	18.5kg

» PACKING CONFIGURATION

Pallet Size(L/W/H)	1725/1100/2426mm
Pallet Weight	1260kg
Pieces per Pallet	64pcs
Pieces per Container	832pcs

» INTERNATIONAL CERTIFICATES

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