

# ARGOS

The robust all-rounder

The top quality PID free certified polycrystalline solar module from AVENTIA. Extremely sturdy torsion and corrosion resistant aluminum frame AR coated front glass in combination with excellent performance & positive power tolerance.

Module Efficiency	Positive Power Tolerance	Linear Power Output Warranty	Product Quality warranty
<b>15.93%</b>	<b>0/+5W</b>	<b>25 Years</b>	<b>15 Years</b>

Snow Load Parameters	Wind Load Parameters	Rated Junction Box	For Maximum Performance
<b>5400 Pa</b>	<b>2400 Pa</b>	<b>IP 65</b>	<b>PID FREE</b>

## AVENTIA

PV SOLUTIONS

# Electrical Characteristics

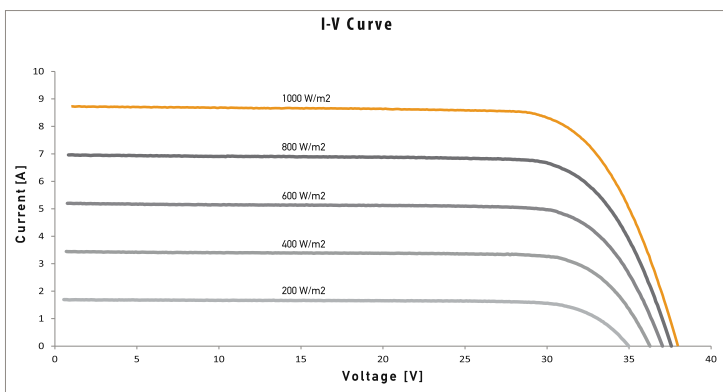
MODULE TYPE	AVN290EP-72	AVN295EP-72	AVN300EP-72	AVN305EP-72	AVN310EP-72
Open-Circuit Voltage (Voc)	44.70 V	44.80 V	45.10 V	45.30 V	45.40 V
Optimum Operating Voltage (Vmp)	36.10 V	36.20 V	36.50 V	36.60 V	37.00 V
Short-Circuit Current (Isc)	8.70 A	8.73 A	8.82 A	8.85 A	8.91 A
Optimum Operating Current (Imp)	8.11 A	8.17 A	8.29 A	8.37 A	8.40 A
Maximum Power at STC (Pmax)	290 W	295 W	300 W	305 W	310 W
Module Efficiency	14.90 %	15.16 %	15.41 %	15.67 %	15.93 %
Maximum Series Fuse Rating	15 A				
Operating Temperature	-40°C to +85 °C				
Maximum System Voltage	1000 VDC				
Power Tolerance	0 to +5 W				

STC : Irradiance 1000 W/m<sup>2</sup>. Module temperature 25 °C. AM=1.5

## MECHANICAL CHARACTERISTICS

Type	Polycrystalline cell 156 x 156 mm
Cells Arrangement	6 x12 (72 pcs)
Module Dimensions	1962 x 992 x 40 mm
Weight	22.5 kg
Front Side	AR coated 3.2 mm Low Iron Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated, 3 by-pass diodes
Standard Packaging	26 pcs. 510 kg per pallet
Module pieces per container	728 pcs in 40 ft HC - 28 pallets

## AVN290EP-72 ELECTRICAL PERFORMANCE

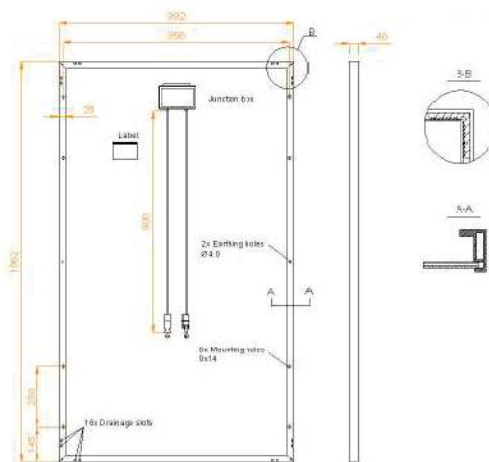


Design and specifications are subject to change.

## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	50 °C ± 2°
Temperature Coefficient (Pmax)	-0.41 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.05 % / °C

## ENGINEERING DRAWING



**AVENTIA**  
PV SOLUTIONS

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