

# 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

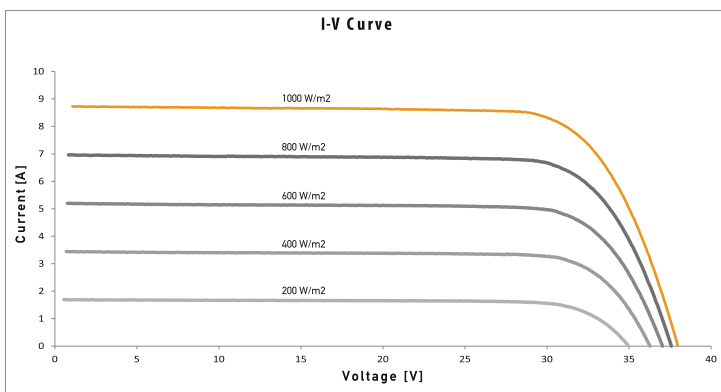
| MODULE TYPE                     | AVN290EP-72     | AVN295EP-72 | AVN300EP-72 | AVN305EP-72 | AVN310EP-72 |
|---------------------------------|-----------------|-------------|-------------|-------------|-------------|
| Open-Circuit Voltage (Voc)      | 44.70 V         | 44.80 V     | 45.10 V     | 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

