ELDORA

HIGH EFFICIENCY SOLAR PV MODULES

vikramsolar

ELDORA VSP.72.AAA.04 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 330-345 WATT

ELDORA neo 72 SILVER SERIES

PERC TECHNOLOGY
the next generation module

Designed for very **HIGH AREA EFFICIENCY** ideally suited for roof-top and ground-mounted applications

Up to +5 Wp **POSITIVE POWER OUTPUT TOLERANCE GUARANTEED** ensuring faster ROI

Extremely **RELIABLE PRODUCT** suiting all environment conditions

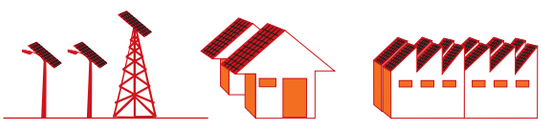
Engineered to provide **EXCELLENT LOW LIGHT AND LONGER WAVELENGTH RESPONSE**

QUALITY AND SAFETY

- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest international standards
- 100% EL tested to ensure micro crack free modules
- Certified for PID resistance
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- Compatible with K2, HILTI & Schletter structures for short and long side clamping
- PAN file validated by PVEL*

APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid residential systems



TECHNICAL DATA
ELDORA NEO 72 SILVER SERIES

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THIS DATASHEET IS APPLICABLE FOR: **ELDORA VSP.72.AAA.04 (AAA=330-345)**

Electrical Data[1]

All data refers to STC (AM 1.5, 1000 W/m², 25 °C)

Peak Power (0-4.99Wp) P_{max} (Wp)	330	335	340	345
Maximum Voltage V_{mpp} (V)	38.61	38.71	38.8	38.9
Maximum Current I_{mpp} (A)	8.56	8.66	8.77	8.87
Open Circuit Voltage V_{oc} (V)	46.4	46.5	46.6	46.7
Short Circuit Current I_{sc} (A)	9.14	9.22	9.32	9.42
Module Efficiency (%)	17.01	17.26	17.52	17.78

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT[2]

Power (W)	241.96	245.61	249.31	252.12
V@P_{max} (V)	34.67	34.74	34.82	34.92
I@P_{max} (A)	6.98	7.07	7.16	7.22
V_{oc} (V)	43.50	43.80	43.90	44.13
I_{sc} (A)	7.40	7.44	7.49	7.53

2) NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.310%/°C
Tc of Short Circuit Current (α)	0.052%/°C
Tc of Power (γ)	-0.49%/°C
Maximum System Voltage	1000 V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

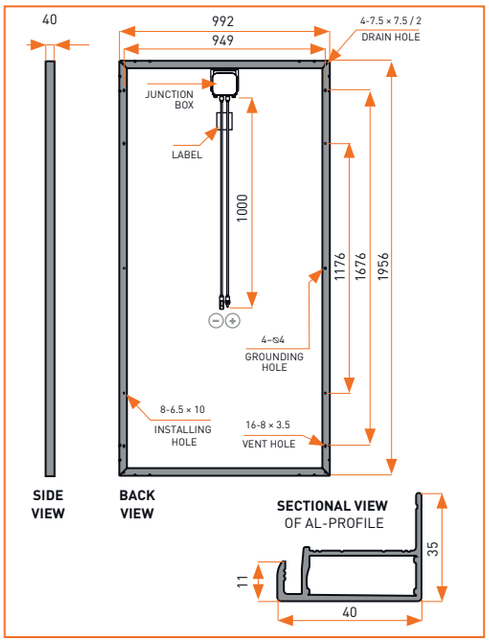
Length × Width × Height	1956 mm × 992 mm × 40 mm
Weight	27 kg
Junction Box	IP67, 3 bypass diodes
Cable & Connectors	1000 mm length cables, SOLARLOK PV4 connectors (MC4 compatible)
Application Class	Class A (Safety class II)
Superstrate	4 mm high transmission low iron tempered glass, AR coated
Cells	72 polycrystalline PERC solar cells, 3 bus bars
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 Pa
Maximum Series Fuse Rating	15 A

Warranty and Certifications

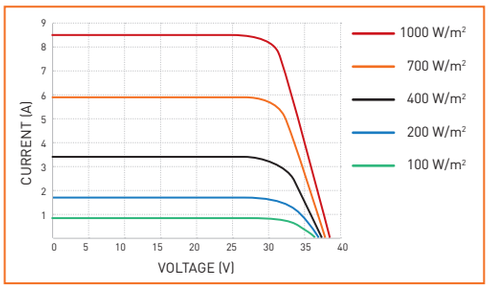
Product Warranty**	10 years
Performance Warranty**	Linear power warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 Ed2*, IEC 61730*, IEC 61701*, IEC 62716*, UL1703*, CE*, MCS*, CEC*, PV Cycle*, IEC 62804*, CAN/CAS 61730*, CEC (Australia)*, JET*

* All (*) certifications under progress.
** Refer to Vikram Solar's warranty document for terms and conditions.

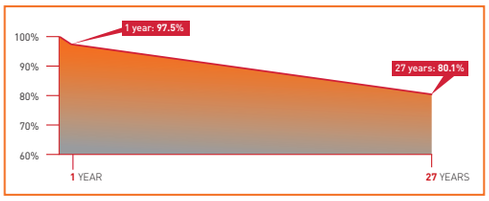
Dimensions in mm



IV Curves



Performance Warranty



Packaging Information

Container	20'GP	40'GP	40'HC
Pallets/Container	10	24	24
Pieces/Container	250	600	660

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