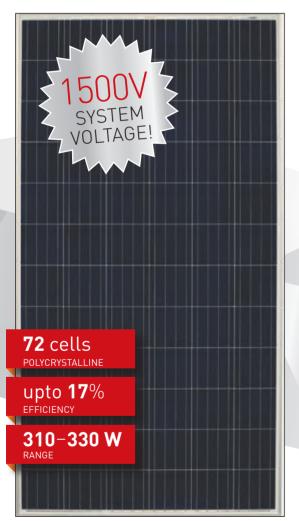




ELDORA VSP.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 310-330 WATT

ELDORA GRAND ULTIMA SILVER 1500V SERIES





HIGHER OUTPUT OF MODULE POWER by reducing cell to module power loss



MAXIMUM SYSTEM VOLTAGE INCREASED TO 1500VDC (IEC & UL), increased string length, low BOS cost



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



Extremely **NARROW POWER BINNING TOLERANCE** of +2.5 Wp to reduce current mismatch loss in single string

QUALITY AND SAFETY

- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest
- international standards100% 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*
- 3rd Party PAN file validated by PVEL*

APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop residential, commercial and industrial roof top installations

CE

PV CYCLE

- Off-grid residential systems
- Solar pumping applications

TECHNICAL DATA ELDORA GRAND ULTIMA SILVER 1500V SERIES



THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.05 (AAA=310-330)

Electrical Data¹ All Data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (Wp)	310	312.5	315	317.5	320	322.5	325	327.5	330
Maximum Voltage V _{mpp} (V)	37.4	37.4	37.5	37.6	37.7	37.7	37.8	37.9	38.0
Maximum Current I _{mpp} (A)	8.3	8.35	8.4	8.45	8.5	8.55	8.6	8.65	8.7
Open Circuit Voltage V _{oc} (V)	45.7	45.8	45.8	45.9	46.0	46.1	46.2	46.2	46.3
Short Circuit Current I_{sc} (A)	8.81	8.87	8.92	8.98	9.03	9.08	9.13	9.19	9.24
Module Efficiency ŋ(%)	16.0	16.1	16.2	16.4	16.5	16.6	16.7	16.9	17.0

1) STC: 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3 Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT²

Power (W)	227.3	229.1	231.2	232.8	234.6	236.5	238.3	240.1	242.0
V@P _{max} (V)	34.2	34.3	34.4	34.4	34.5	34.6	34.6	34.7	34.8
I@P _{max} (A)	6.65	6.69	6.73	6.77	6.80	6.84	6.88	6.92	6.95
V _{oc} (V)	42.4	42.5	42.5	42.5	42.6	42.6	42.7	42.7	42.7
I _{sc} (A)	7.14	7.18	7.22	7.26	7.30	7.34	7.38	7.42	7.46

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)	-0.31%/°C
Tc of Short Circuit Current (α)	0.052%/°C
Tc of Power (γ)	-0.41%/°C
Maximum System Voltage	1500 V
NOCT	44°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

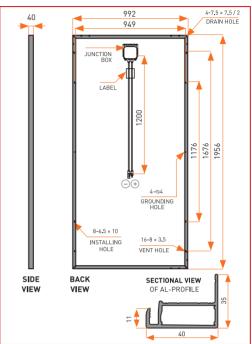
Length × Width × Height	1956 × 992 × 40 mm (77.01 × 39.06 × 1.57 inches)
Weight	27 kg (59.52 lbs)
Junction Box	IP68/67, 3 bypass diodes
Cable & Connectors	1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	4 mm (0.16 inches) high transmission low iron tempered glass, AR coated
Cells	72 polycrystalline solar cells
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

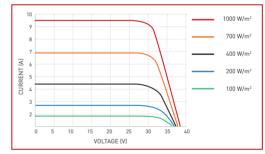
Product Warranty**	10 years
	Linear power warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
	IEC 61215 Ed2, IEC 61730, IEC 61701*, IEC 62716, UL1703, CE*, MCS*, CEC*, PV Cycle*, IEC 62804*, CAN/CAS 61730*

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

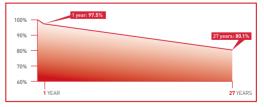
Dimensions in mm



Typical I-V Curves



Performance Warranty



Packaging Information

Container	40'HC
Pallets/Container	24
Pieces/Container	600

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT. Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.