

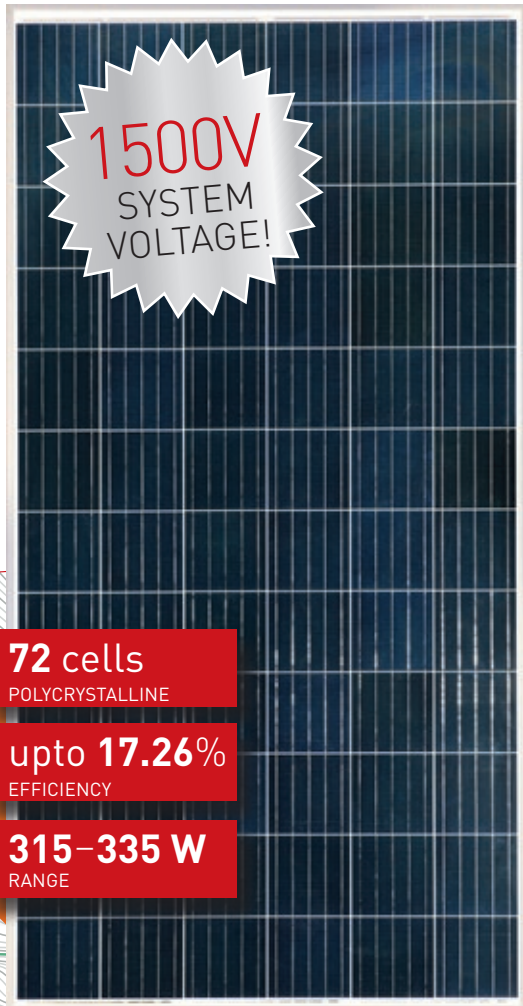
ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES



ELDORA VSP.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 315-335 WATT

ELDORA GRAND 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 roof-top 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 standards
- ◆ 100% EL tested to ensure micro crack free modules
- ◆ Certified for PID free

- ◆ Certified for salt mist corrosion resistance – severity VI
- ◆ Certified for ammonia resistance
- ◆ 3rd Party validated PAN file
- ◆ Certified for sand and dust test

APPLICATIONS

- ◆ On-grid large scale utility systems
- ◆ On-grid rooftop residential, commercial and industrial roof top installations
- ◆ Off-grid residential systems
- ◆ Solar pumping applications

TECHNICAL DATA

ELDORA GRAND 1500V SERIES

THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.05 (AAA=315-335)

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

Peak Power P _{max} (Wp)	315.0	317.5	320.0	322.5	325.0	327.5	330.0	332.5	335.0
Maximum Voltage V _{mpp} (V)	37.5	37.6	37.7	37.7	37.8	37.9	38.0	38.1	38.1
Maximum Current I _{mp} (A)	8.40	8.45	8.50	8.55	8.60	8.65	8.70	8.74	8.80
Open Circuit Voltage V _{oc} (V)	45.8	45.9	46.0	46.1	46.2	46.2	46.3	46.4	46.5
Short Circuit Current I _{sc} (A)	8.92	8.98	9.03	9.08	9.13	9.19	9.24	9.29	9.35
Module Efficiency η(%)	16.23	16.36	16.49	16.62	16.75	16.88	17.01	17.14	17.26

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)	233.2	235.2	237.2	238.6	240.6	242.6	244.7	246.4	248.2
V@P _{max} (V)	34.6	34.7	34.8	34.8	34.9	34.9	35.0	35.1	35.1
I@P _{max} (A)	6.74	6.78	6.82	6.86	6.90	6.95	6.99	7.02	7.06
V _{oc} (V)	42.4	42.5	42.6	42.71	42.80	42.80	42.89	42.98	43.08
I _{sc} (A)	7.22	7.27	7.31	7.35	7.39	7.43	7.47	7.51	7.56

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)	-0.29%/°C
Tc of Short Circuit Current (α)	0.057%/°C
Tc of Power (γ)	-0.38%/°C
Maximum System Voltage	1500 V
NOCT	44°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

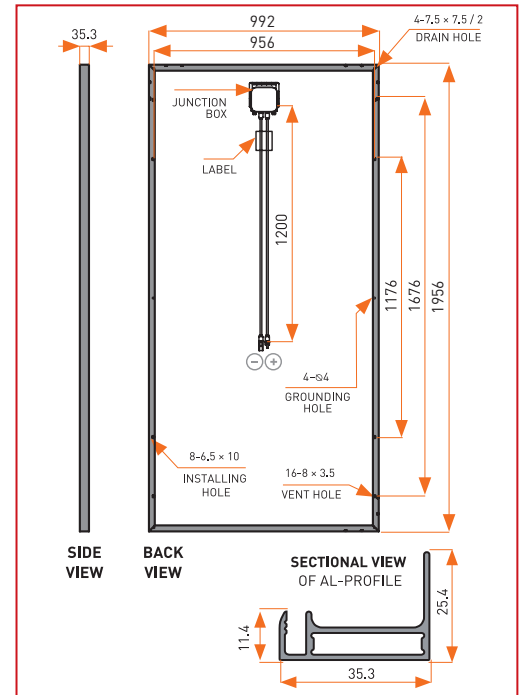
Length × Width × Height	1956 × 992 × 36 mm (77.01 × 39.06 × 1.42 inches)
Weight	20.7 kg (45.63 lbs)
Junction Box	IP68/IP67, 3 Bypass diodes
Cable & Connectors	1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	72 Polycrystalline, 5BB 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 (Snow load), 2400 Pa (Wind load)
Maximum Series Fuse Rating	15 A

Warranty and Certifications

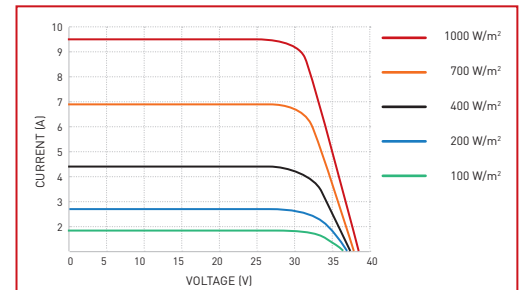
Product Warranty**	10 years
Performance Warranty**	Linear power warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE, MCS, CEC, PV Cycle*

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

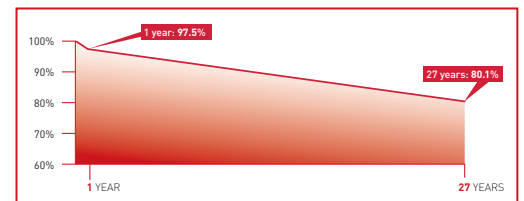
Dimensions in mm



Typical I-V Curves



Performance Warranty



Packaging Information

Container	40'HC
Pallets/Container	24
Pieces/Container	672