ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES

vikramsolar

CREATING CLIMATE FOR CHANGE

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 265-290 WATT

ELDORA ULTIMA

SILVER 1500V SERIES

60 cells
POLYCRYSTALLINE

upto **17.83**%
EFFICIENCY

265-290 W
RANGE

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

Extremely **RELIABLE PRODUCT** suiting all environment conditions

Engineered to provide **EXCELLENT LOW LIGHT RESPONSE**

Extremely **NARROW POWER** binning tolerance to reduce current mismatch loss in single string

PTL US CERTIFIED

TÜVRheinland CERTIFIED IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1111214196

R-51000566

MCS

CE

PV CYCLE

Clean Energy Council MEMBER

kiwa

QUALITY AND SAFETY

- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest international standards
- 100% EL tested to minimise micro crack
- Excellent anti-PID performance
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- 3rd Party validated PAN file

APPLICATIONS

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

TECHNICAL DATA

ELDORA ULTIMA SILVER 1500V SERIES

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THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.60.AAA.05 (AAA=265-290)

Electrical Data[1, 2] All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P_{max} (Wp)	265	270	275	280	285	290
Maximum Voltage V_{mpp} (V)	30.9	31	31.2	31.3	31.5	31.7
Maximum Current I_{mpp} (A)	8.58	8.71	8.82	8.95	9.05	9.16
Open Circuit Voltage V_{oc} (V)	38.1	38.3	38.5	38.6	38.9	39.1
Short Circuit Current I_{sc} (A)	9.03	9.12	9.22	9.35	9.45	9.54
Module Efficiency η(%)	16.29	16.60	16.90	17.21	17.52	17.83

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2) Power measurement uncertainty is within +/- 3%.

Electrical Parameters at NOCT[3]

Power (W)	196.6	200.1	204.3	207.9	211.7	215.5
V@P_{max} (V)	28.5	28.6	28.8	28.9	29.1	29.2
I@P_{max} (A)	6.89	6.99	7.09	7.19	7.29	7.37
V_{oc} (V)	35.1	35.3	35.5	35.6	36.0	36.2
I_{sc} (A)	7.31	7.38	7.46	7.57	7.65	7.72

3) 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	45°C±2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

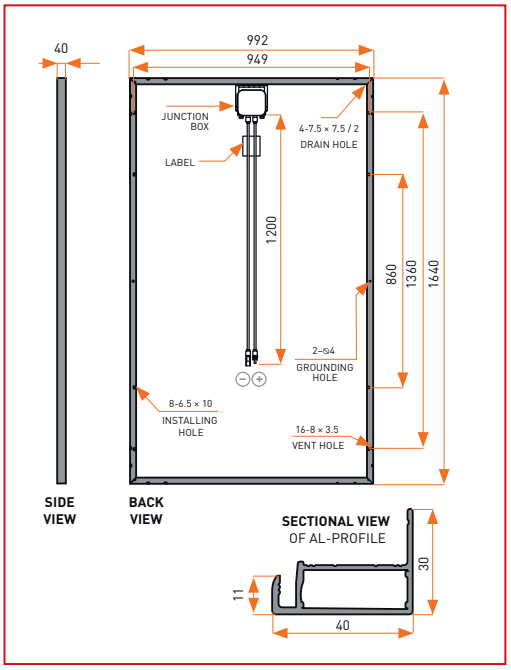
Length × Width × Height	1640 × 992 × 40 mm (64.57 × 39.06 × 1.57 inches)
Weight	18.50 kg (40.79 lbs)
Junction Box	IP68/67, 3 bypass diodes
Cable & Connectors	1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	60, 5BB 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 (Snow load), 2400 Pa (Wind load)
Maximum Series Fuse Rating	15 A

Warranty and Certifications

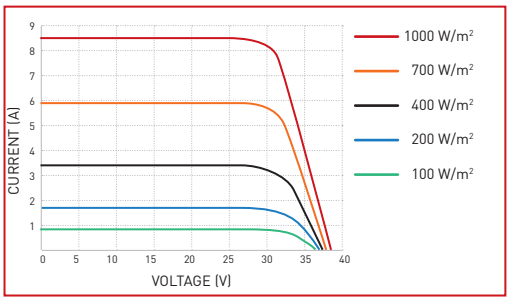
Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 60068-2-68, IS 14286, IS/IEC 61730, IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, IEC 62804, UL1703^, CE^, MCS, PV Cycle^, CAN/CSA 61730, CEC (California)#

^ All (^) certifications under progress.
** Refer to Vikram Solar's warranty document for terms and conditions. | # CEC (California) power range upto 275 Wp

Dimensions in mm

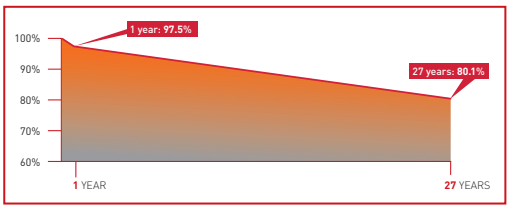


Typical I-V Curves[4]



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Performance Warranty



Packaging Information

Quantity/Pallet	25
Pallets/Container (40'HC)	28
Quantity/Container (40'HC)	700

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.

sales@vikramsolar.com www.vikramsolar.com