ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES

vikramsolar

CREATING CLIMATE FOR CHANGE

ELDORA VSP.60.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 270-280 WATT

ELDORA ULTIMA
SILVER 1500V SERIES

60 cells
POLYCRYSTALLINE

upto **17.21**%
EFFICIENCY

270-280 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

TÜVRheinland CERTIFIED
IEC 61215
IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111219270

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
- Fire rating: (TYPE 7, Class C)

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=270-280)

Electrical Data[1, 2]

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

Peak Power P_{max} (Wp) Power Tolerance : 0 ~ +4.99Wp	270	275	280
Maximum Voltage V_{mpp} (V)	31	31.2	31.3
Maximum Current I_{mpp} (A)	8.71	8.82	8.95
Open Circuit Voltage V_{oc} (V)	38.3	38.5	38.6
Short Circuit Current I_{sc} (A)	9.12	9.22	9.35
Module Efficiency η(%)	16.60	16.90	17.21

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM 1.5G spectrum according to EN 60904-3. | 2) Measurement Tolerance at STC: P_{max} : ± 3%Voc : ± 5%Isc : ± 5%.

Electrical Parameters at NOCT[3]

Power (W)	200.1	204.3	207.9
V@P_{max} (V)	28.6	28.8	28.9
I@P_{max} (A)	6.99	7.09	7.19
V_{oc} (V)	35.3	35.5	35.6
I_{sc} (A)	7.38	7.46	7.57

3) NOCT Irradiance 800 W/m², ambient temperatire 20 Deg Cent, AM 1.5G Spectrum, Wind Speed 1m/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

Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Mechanical Data

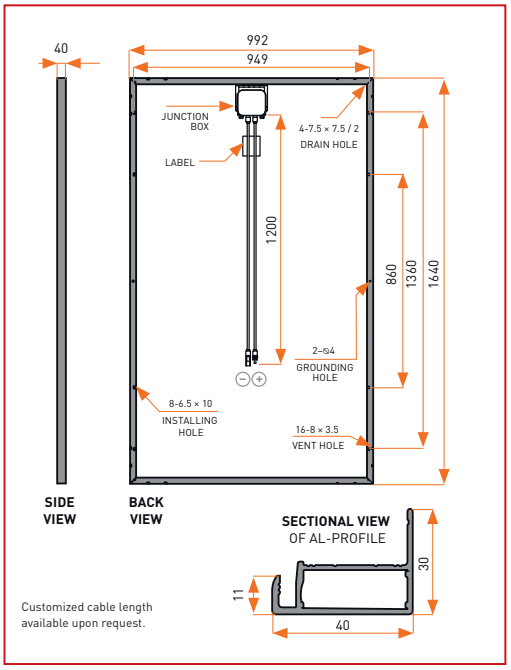
Length × Width × Height	1640 ± 2mm × 992 ± 2mm × 40 ± 1mm
Weight	18.5 kg +/- 3%
Junction Box	IP68/IP67, 3 Bypass diodes
Cable Cross Section Size	4mm²
Connectors	PVKST4-EVO2/xy_UR/PVKBT4-EVO 2/xy_UR , PV-JM608 , 05-8.
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	60 (6 × 10) Polycrystalline, 5BB solar cells
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite film
Frame	Anodized aluminium frame with twin wall profile
Maximum Static Load, Front	3600Pa, 1.5
Maximum Static Load, Back	1600Pa, 1.5
Maximum Series Fuse Rating	15A (IEC)

Warranty and Certifications

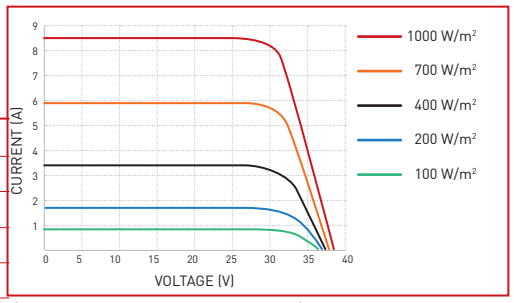
Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 : 2016, IEC 61730: 2016

** Refer to Vikram Solar's warranty document for terms and conditions

Dimensions in mm

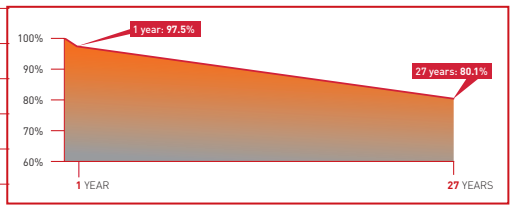


Typical I-V Curves[4]



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

Performance Warranty



Packaging Information

Quantity/Pallet	27
Pallets/Container (40'HC)	28
Quantity/Container (40'HC)	756

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.

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