

ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES


vikramsolar
CREATING CLIMATE FOR CHANGE

ELDORA VSP.60.AAA.03.04 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 270-280 WATT

ELDORA ULTIMA SILVER SERIES



60 cells
POLYCRYSTALLINE

upto 17.21%
EFFICIENCY

270-280 W
RANGE



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



Extremely **RELIABLE PRODUCT**
suited all environment conditions



Engineered to provide **EXCELLENT
LOW LIGHT RESPONSE**



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



QUALITY AND SAFETY

- ① 27 years of linear power output warranty **
- ① Rigorous quality control meeting the highest international standards

- ① 100% EL tested to minimise micro crack
- ① Dgpc p_rgl e8 &RWNC 5* Aj_qq A'

APPLICATIONS

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

TECHNICAL DATA

ELDORA ULTIMA SILVER SERIES

THIS DATASHEET IS APPLICABLE FOR:ELDORA VSP.60.AAA.03.04 (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} : $\pm 3\%$ V_{oc} : $\pm 5\%$ I_{sc} : $\pm 5\%$.

Electrical Parameters at NOCT³

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 temperature 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	1000 V
NOCT	44°C $\pm$ 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	4mm ²
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

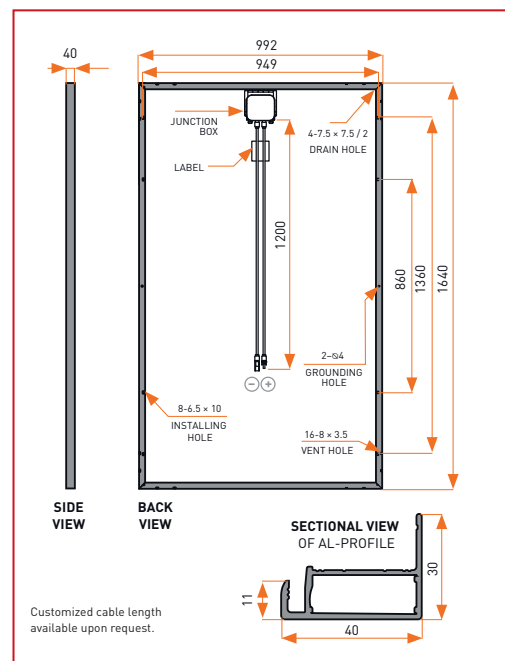
Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 : 2016, IEC 61730: 2016

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

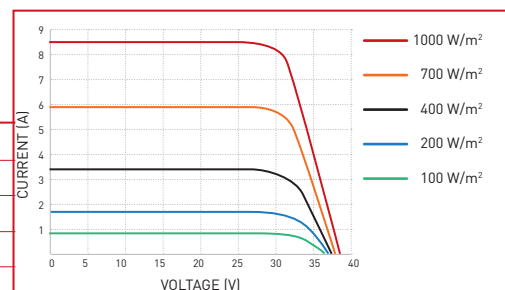
CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.
Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

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Dimensions in mm

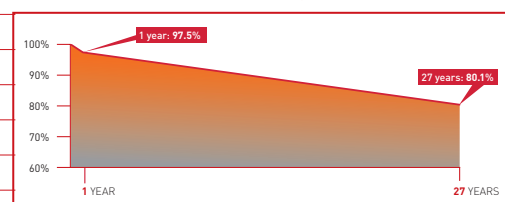


Typical I-V Curves⁴



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

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