ELDORA
HIGH EFFICIENCY SOLAR PV MODULES

vikramsolar
CREATING CLIMATE FOR CHANGE

ELDORA VSP.60.AAA.03.04| POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 255-280 WATT

ELDORA ULTIMA
SILVER SERIES

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

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

Up to +2.5 Wp **POSITIVE POWER OUTPUT TOLERANCE GUARANTEED** ensuring better ROI

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

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 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*
◆ Approved by OST energy*

APPLICATIONS

◆ On-grid large scale utility systems
◆ On-grid rooftop residential and commercial systems
◆ Off-grid residential systems
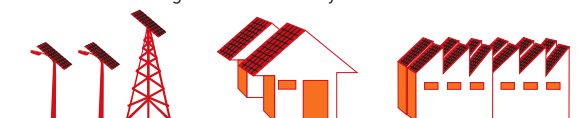
TECHNICAL DATA
ELDORA ULTIMA SILVER SERIES

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THIS DATASHEET IS APPLICABLE FOR: **ELDORA VSP.60.AAA.03.04 (AAA=255-280)**

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

Peak Power P_{max} (Wp)	255	257.5	260	262.5	265	267.5	270	272.5	275	277.5	280
Maximum Voltage V_{mpp} (V)	30.6	30.7	30.8	30.9	30.9	31.0	31.0	31.1	31.2	31.2	31.3
Maximum Current I_{mpp} (A)	8.33	8.38	8.43	8.50	8.57	8.62	8.70	8.76	8.82	8.89	8.94
Open Circuit Voltage V_{oc} (V)	37.6	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7
Short Circuit Current I_{sc} (A)	8.84	8.88	8.93	8.98	9.03	9.09	9.12	9.18	9.23	9.28	9.32
Module Efficiency η(%)	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	17.1	17.2

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT[2]

Power (W)	188.9	191.6	192.8	193.5	194.7	196.0	197.8	199.1	200.7	201.8	203.2
V@P_{max} (V)	27.7	27.8	27.8	27.9	27.9	28.0	28.0	28.0	28.1	28.1	28.2
I@P_{max} (A)	6.82	6.87	6.93	6.96	6.98	7.02	7.06	7.11	7.15	7.18	7.22
V_{oc} (V)	35.3	35.4	35.4	35.4	35.5	35.5	35.6	35.6	35.7	35.7	35.8
I_{sc} (A)	7.16	7.20	7.24	7.31	7.37	7.43	7.49	7.56	7.62	7.67	7.73

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)	0.058%/°C
Tc of Power (γ)	-0.41%/°C
Maximum System Voltage	1000 V
NOCT	45°C±2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

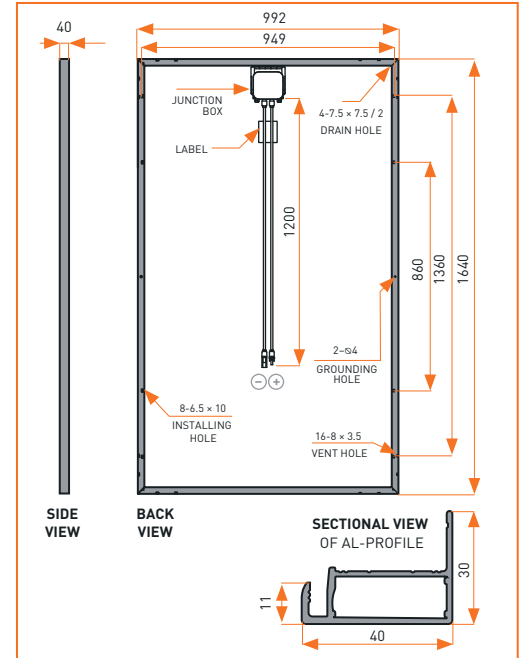| Length × Width × Height	1640 × 992 × 40 mm (64.57 × 39.06 × 1.57 inches)
Weight	18.50 kg (40.79 lbs)
Junction Box	IP67, 3 Bypass diodes
Cable & Connectors	1200 mm (47.24 inches) length cables, SOLARLOK PV4/MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	60 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

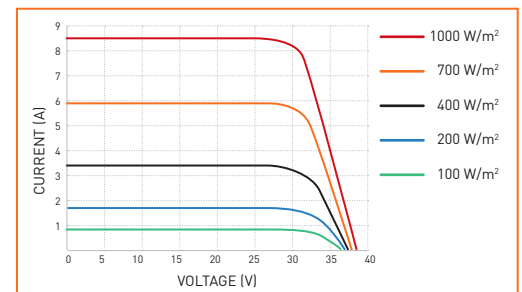| Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, UL1703, CE, MCS, CEC*, PV Cycle*, IEC 62804, CAN/CSA 61730, JET*

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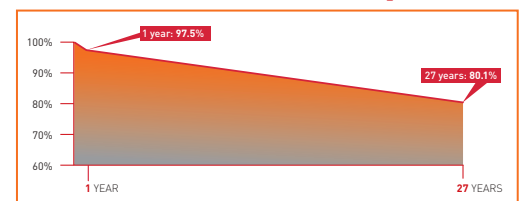** Refer to Vikram Solar's warranty document for terms and conditions.

Dimensions in mm

SIDE VIEW   BACK VIEW   SECTIONAL VIEW OF AL-PROFILE

JUNCTION BOX
LABEL
4-7.5 × 7.5 / 2 DRAIN HOLE
2-Ø4 GROUNDING HOLE
8-6.5 × 10 INSTALLING HOLE
16-8 × 3.5 VENT HOLE

Typical I-V Curves

1000 W/m²
700 W/m²
400 W/m²
200 W/m²
100 W/m²

Performance Warranty

1 year: 97.5%
27 years: 80.1%

Packaging Information

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

sales@vikramsolar.com   **www.vikramsolar.com**