

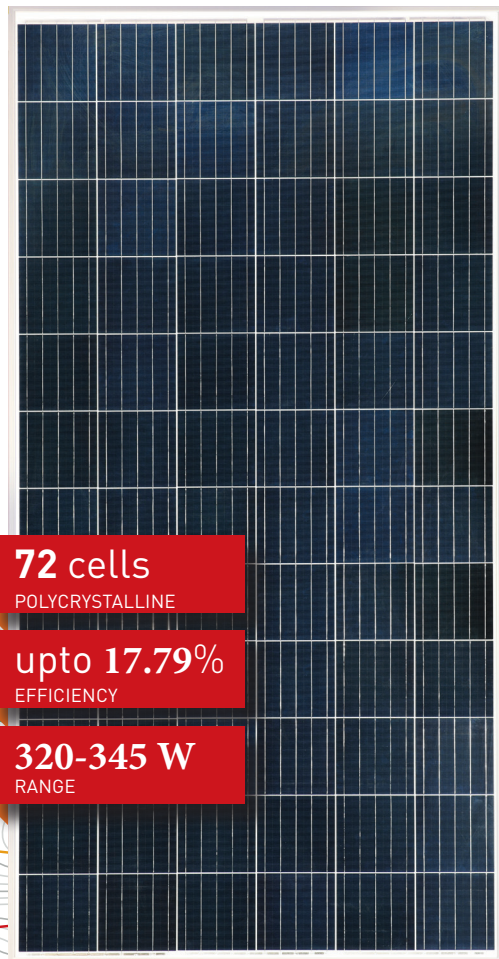
ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES


vikramsolar
CREATING CLIMATE FOR CHANGE

ELDORA VSP.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 320-345 WATT

ELDORA GRAND ULTIMA SILVER 1500V 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



EXTREMELY RELIABLE PRODUCT

suited for harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load



MAXIMUM SYSTEM VOLTAGE

INCREASED TO 1500VDC (IEC & UL), increased string length, low BOS cost



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

- ① On-grid large scale utility systems
- ① On-grid rooftop residential, commercial and industrial roof top installations
- ① Off-grid residential systems

TECHNICAL DATA

ELDORA GRAND ULTIMA SILVER 1500V SERIES

THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.05 (AAA=320-345)

Electrical Data^{1,2} All Data refers to STC

Peak Power P_{max} (Wp)	Power Tolerance : 0 ~ +4.99Wp	320	325	330	335	340	345
Maximum Voltage V_{mpp} (V)		37.7	37.8	38	38.1	38.2	38.3
Maximum Current I_{mpp} (A)		8.5	8.61	8.7	8.8	8.91	9.01
Open Circuit Voltage V_{oc} (V)		46	46.2	46.3	46.5	46.7	46.8
Short Circuit Current I_{sc} (A)		9.03	9.13	9.24	9.35	9.45	9.55
Module Efficiency η (%)		16.52	16.78	17.03	17.29	17.55	17.79

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)	237.6	241.3	245.0	248.5	250.6	252.2
$V@P_{max}$ (V)	34.8	34.9	35.1	35.2	35.2	35.3
$I@P_{max}$ (A)	6.82	6.91	6.98	7.06	7.11	7.15
V_{oc} (V)	42.6	42.8	42.9	43.1	43.2	43.3
I_{sc} (A)	7.31	7.39	7.48	7.57	7.61	7.65

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	1500 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 x Width x Height	1955 $\pm$ 2mm x 991 $\pm$ 2mm x 40 $\pm$ 1mm
Weight	22 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	72 (6 x 12) 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)

* Also available in anti-soil and anti-glare

Warranty and Certifications

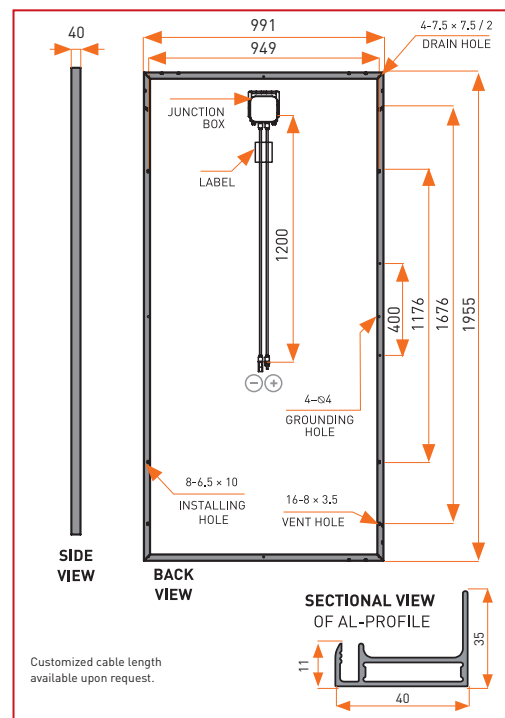
Product Warranty**	10 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates	IEC 61215 : 2016, IEC 61730: 2016

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

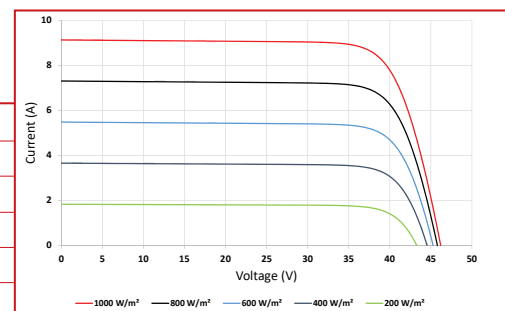
CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT. Please confirm your exact requirement with the company representative while placing your order.

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Dimensions in mm

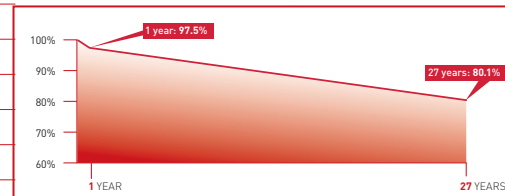


Typical I-V Curves⁴



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)	24
Quantity/Container (40'HC)	648

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