

# ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES

## 315-340W



**vikramsolar**  
CREATING CLIMATE FOR CHANGE

MAXIMUM EFFICIENCY %

17.52

POSITIVE POWER TOLERANCE WP

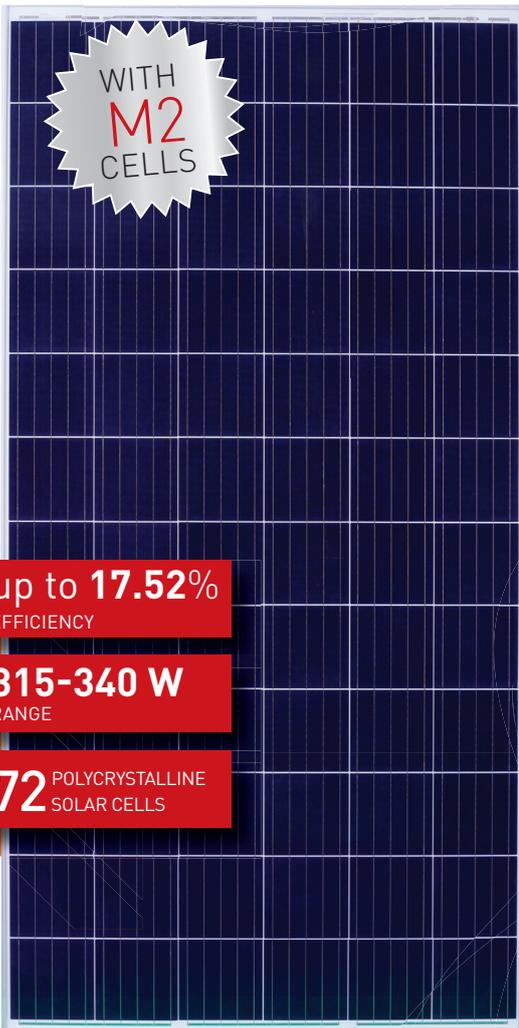
0~+4.99

CELLS

M2 72

MODULE TECHNOLOGY

**FULL CELL**  
WITH EXCELLENT QUALITY



## ELDORA GRAND



### 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



**DCR CONTENT** module is available



### 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
- ◆ Certified for sand and dust test

### APPLICATIONS

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



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THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.05 (AAA=315-340)

### Electrical Data<sup>1,2</sup> All Data refers to STC

Parameter	315	320	325	330	335	340
Peak Power $P_{max}$ (Wp) (0 ~ +4.99Wp)	315	320	325	330	335	340
Maximum Voltage $V_{mpp}$ (V)	37.5	37.7	37.8	38	38.1	38.2
Maximum Current $I_{mpp}$ (A)	8.4	8.5	8.6	8.7	8.8	8.91
Open Circuit Voltage $V_{oc}$ (V)	45.8	46	46.2	46.3	46.5	46.7
Short Circuit Current $I_{sc}$ (A)	8.92	9.03	9.13	9.24	9.35	9.46
Module Efficiency $\eta$ (%)	16.23	16.49	16.75	17.01	17.26	17.52

1) STC: 1000 W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. 1.2) Power measurement uncertainty is within +/- 3%.

### Electrical Parameters at NOCT<sup>3</sup>

Power (W)	233.2	237.2	240.6	244.7	248.2	251.6
$V@P_{max}$ (V)	34.6	34.8	34.9	35	35.1	35.2
$I@P_{max}$ (A)	6.74	6.82	6.9	6.99	7.06	7.13
$V_{oc}$ (V)	42.4	42.6	42.8	42.9	43.1	43.3
$I_{sc}$ (A)	7.22	7.31	7.39	7.47	7.56	7.64

3) NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec.

### Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage ( $\beta$ )	-0.29%/°C
Tc of Short Circuit Current ( $\alpha$ )	0.057%/°C
Tc of Power ( $\gamma$ )	-0.38%/°C
Maximum System Voltage	1500 V
NOCT	44°C ± 2°C
Temperature Range	-40°C to + 85°C

### Mechanical Data

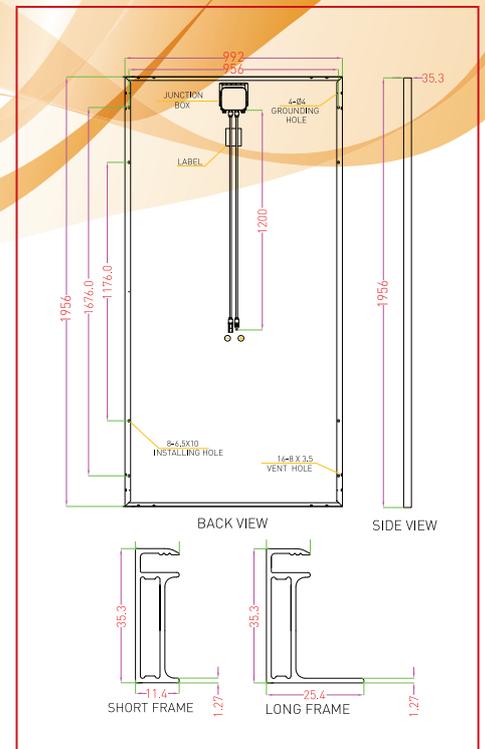
Length × Width × Height	1956 X 992 X 36 mm [77.01 X 39.06 X 1.42 inches]
Weight	19.5 kg ( 42.99 lbs)
Junction Box	IP68, 3 bypass diodes
Cable & Connectors	1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate <sup>#</sup>	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	72 Polycrystalline, 5BB 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

<sup>#</sup> Also available in anti-soil and anti-glare.

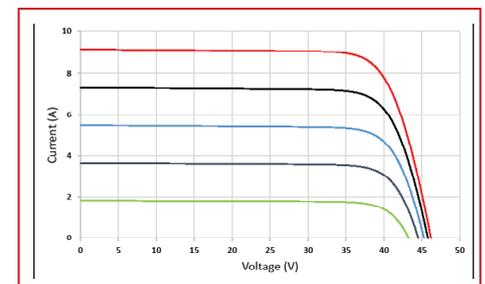
### Warranty and Certifications

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, UL 61215, UL 61730, IS/IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE, CAN/CSA 61730, CEC(California), IS 14286

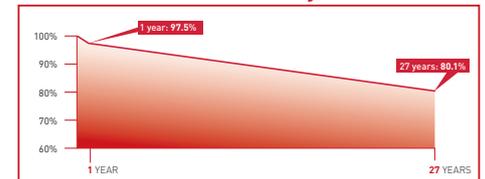
### Dimensions in mm



### Typical I-V Curves<sup>4</sup>



### Performance Warranty



### Packaging Information

Quantity /Pallet	30
Pallets/Container (40' HC)	24
Quantity/Container (40' HC)	720

\*\* 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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