

# ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES

## 325-350W

  
**vikramsolar**

CREATING CLIMATE FOR CHANGE

MAXIMUM EFFICIENCY %

17.29

POSITIVE POWER TOLERANCE WP

0~+4.99

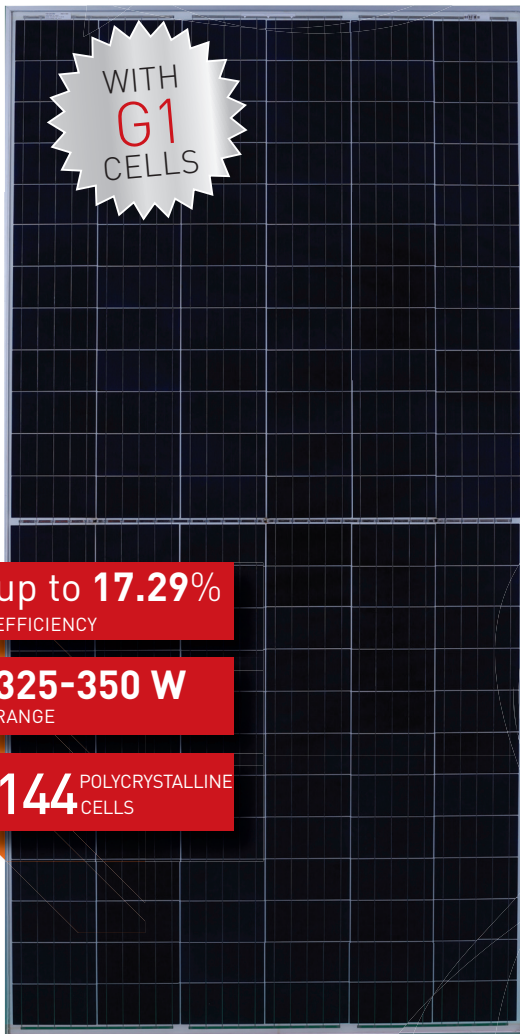
CELLS

G1 144

MODULE TECHNOLOGY

**HALF CUT  
DESIGN**

WITH IMPROVED SHADE TOLERANCE



## ELDORA GRAND PLUS



### SUPERIOR PRICE PERFORMANCE

of half-cell improves module output without adding much to the cost



Bypass diodes and innovative series-parallel connections enable the module to perform better in **PARTIAL SHADOW CONDITIONS**



Half-cell generates only half the current, lowering heat production and **LESS HOT SPOT**, increasing module longevity



Low resistance between the cells **REDUCES POWER LOSS**, increases overall power output



Three separate junction boxes reduce internal resistance and **IMPROVE HEAT DISSIPATION**



**DCR CONTENT** module is available



### QUALITY AND SAFETY

- ◆ 27 years of linear power output warranty \*\*
- ◆ Rigorous quality control meeting the highest standards
- ◆ 100% EL tested to minimise micro crack
- ◆ Certified for IEC 61215, BIS, UL
- ◆ Certified for salt mist corrosion resistance – severity VI
- ◆ Certified for ammonia resistance
- ◆ Certified for sand and dust test^
- ◆ Excellent anti-PID performance

### APPLICATIONS

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

THIS DATASHEET IS APPLICABLE FOR: ELDORA VSPH.72.AAA.05 (AAA=325-350)

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

	325	330	335	340	345	350
Peak Power $P_{max}$ (Wp) (0 ~ +4.99Wp)	325	330	335	340	345	350
Maximum Voltage $V_{mpp}$ (V)	38.7	38.9	39.1	39.3	39.5	39.7
Maximum Current $I_{mpp}$ (A)	8.41	8.5	8.58	8.66	8.75	8.83
Open Circuit Voltage $V_{oc}$ (V)	45.7	45.9	46.1	46.3	46.5	46.7
Short Circuit Current $I_{sc}$ (A)	9.24	9.34	9.44	9.54	9.64	9.74
Module Efficiency $\eta$ (%)	16.06	16.30	16.55	16.80	17.04	17.29

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

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

Power (W)	240.6	244.3	248	251.7	255.4	259.1
$V@P_{max}$ (V)	35.7	35.9	36.1	36.3	36.5	36.7
$I@P_{max}$ (A)	6.74	6.8	6.87	6.99	7.08	7.21
$V_{oc}$ (V)	42.3	42.4	42.6	42.8	43	43.2
$I_{sc}$ (A)	7.48	7.56	7.64	7.72	7.8	7.88

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 ( $\beta$ )	-0.30%/°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

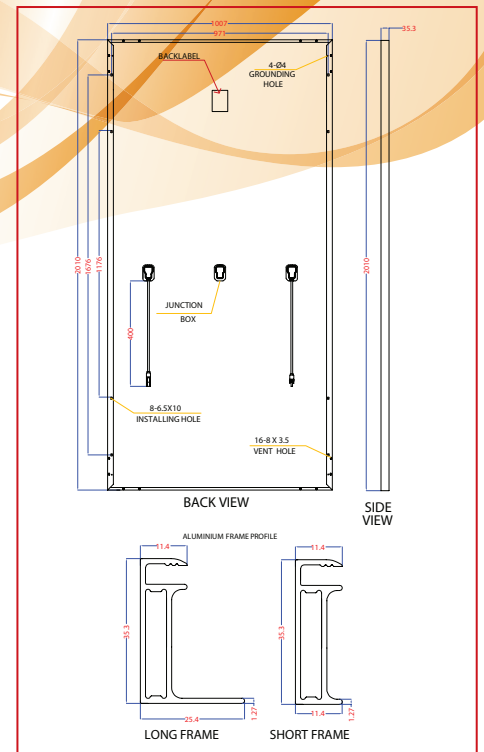
Length × Width × Height	2010 × 1007 × 36mm (79.12 × 39.64 × 1.42 inches)
Weight	22 kg (48.51 lbs)
Junction Box	IP68, 3 bypass diodes
Cable & Connectors	400 mm (15.75 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate#	3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
Cells	72 Polycrystalline (144 half-cells), 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

\* Also available in anti-soil and anti-glare.

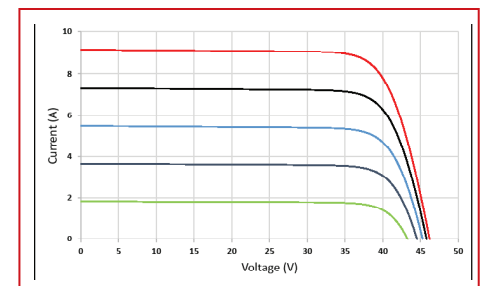
### Warranty and Certifications

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

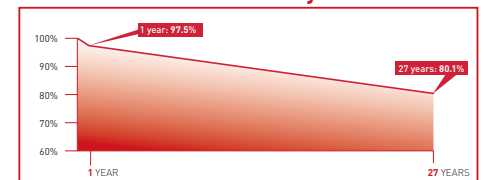
### Dimensions in mm



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



### Performance Warranty



### Packaging Information

Quantity /Pallet	30
Pallets/Container (40'HC)	22
Quantity/Container (40'HC)	660

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

**CAUTION:** READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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