



ELDORA VSPH.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 144 CELLS | 325-350 WATT

ELDORA GRAND PLUS



SUPERIOR PRICE PERFORMANCE

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



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



 $\overline{\mathbf{Q}}$

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



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

INCREASED SHADE TOLERANCE



HALF-CELL MODULE

It functions like two modules joined parallel, enabling half-cell string still work during partial shadowing



▷ Applicable in USA | µ Applicable in Europe, Indian Subcontinent and ROW (excluding USA) | ¢ Applicable in India

QUALITY AND SAFETY

up to **17.78**%

325-350 W

44 5BB solar cells

EFFICIENCY

- + 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

TECHNICAL DATA



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

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (Wp) (0 ~ +4.99Wp)		330	335	340	345	350
Maximum Voltage V _{mpp} (V)		38.9	39.1	39.3	39.5	39.7
Maximum Current I _{mpp} (A)		8.50	8.58	8.66	8.75	8.83
Open Circuit Voltage V _{oc} (V)		45.9	46.1	46.3	46.5	46.7
Short Circuit Current I _{sc} (A)		9.34	9.44	9.54	9.64	9.74
Module Efficiency η(%)		16.77	17.02	17.28	17.53	17.78

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2) Power measurement uncertainty is within +/- 3%.

Electrical Parameters at NOCT³

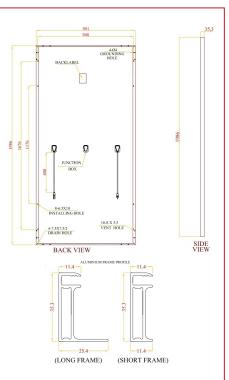
Power (W)	240.6	244.3	248.0	251.7	255.4	259.1
V@P _{max} (V)	35.7	35.9	36.1	36.3	36.5	36.7
I@P _{max} (A)	6.74	6.80	6.87	6.99	7.08	7.21
V _{oc} (V)	42.3	42.4	42.6	42.8	43.0	43.2
I _{sc} (A)	7.48	7.56	7.64	7.72	7.80	7.88

3) 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)	-0.30%/°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 ± 2°C			
Temperature Range	-40°C to + 85°C			

Dimensions in mm



Mechanical Data

Length × Width × Height	1986 × 991 × 36mm (78.18 × 39.01 × 1.38 inches)
Weight	21 kg (46.29 lbs)
Junction Box	IP68/IP67, Split Junction Box with individual bypass diodes
Cable & Connectors	400 mm (15.74 inches) length cables,MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.125 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

Warranty and Certifications

Product Warranty**	10 years
	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
	IEC 61215 Ed2, IS/IEC 61730, IEC 61701, IEC 62716^, IEC 60068-2-68^, IEC 62804, CE, CEC (California)^, UL 1703, IS 14286

Packaging Information

Quantity /Pallet: 30	Pallets/Container (40'HC): 22	Quantity/Container (40'HC): 660	^ All (^) certific ** Refer to Vikr

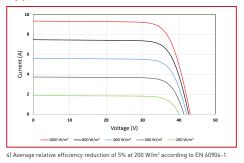
All (^) certifications under progress. * Refer to Vikram Solar's warranty document for terms and conditions.

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

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Typical I-V Curves⁴



Performance Warranty

