



ELDORA VSPH.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 144 CELLS | 335-350 WATT

ELDORA GRAND PLUS - MBB





IMPROVED FIELD RELIABILITY due to multiple contact points on the cell.



BETTER TOLERANCE TO MICRO CRACK

Higher number of busbar makes the PV modules less prone to loss in efficiency due to micro-cracks.



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



SUPERIOR PRICE PERFORMANCE

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



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

INCREASED SHADE TOLERANCE



HALF-CELL MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading











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 salt mist corrosion resistance severity VI
- Certified for ammonia resistance
- Certified for sand and dust test

APPLICATIONS

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

TECHNICAL DATA

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Dimensions in mm

THIS DATASHEET IS APPLICABLE FOR: ELODRA VSPH.72.AAA.05 (AAA=335-350)

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

Peak Power P _{max} (Wp)	335	340	345	350
Maximum Voltage V _{mpp} (V)	39.1	39.2	39.2	39.3
Maximum Current I _{mpp} (A)	8.57	8.68	8.79	8.90
Open Circuit Voltage V _{oc} (V)	46.2	46.3	46.4	46.5
Short Circuit Current I _{sc} (A)	9.07	9.18	9.30	9.41
Module Efficiency η(%)	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)	247.9	251.6	255.3	259.0
V@P _{max} (V)	36.0	36.0	36.1	36.2
I@P _{max} (A)	6.88	6.97	7.06	7.14
V _{oc} (V)	42.7	42.8	42.9	43.0
I _{sc} (A)	7.26	7.35	7.44	7.52

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)	- 0.29%/°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 ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

Length × Width × Height	1986 × 991 × 36mm (78.18 × 39.01 × 1.42 inches)	
Weight	21 kg (46.29 lbs)	
Junction Box	IP68/IP67, Split Junction Box with individual bypass diodes	
Cable & Connectors#	400 mm 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	Polycrystalline (144 half-cells), MBB 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

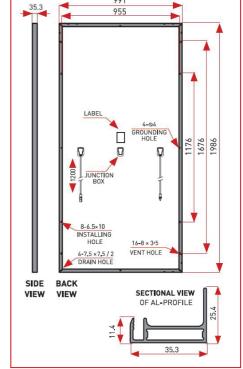
Product Warranty**	10 years
Performance Warranty**	Linear Power Warranty for 27 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 27
Approvals and Certificates^	IEC 61215 Ed2:2016, IEC 61730:2016, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE, CEC (California), UL 1703, IS/IEC 61730

Packaging Information

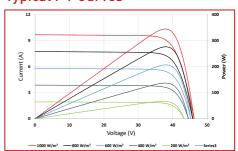
Quantity /Pallet: 28	Pallets/Container (40'HC): 30	Quantity/Container (40'HC): 660
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fications under progress.

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



Typical I-V Curves⁴



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1

Performance Warranty



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

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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