ELDORA

HIGH EFFICIENCY POLY-Si PV MODULES

325-350W

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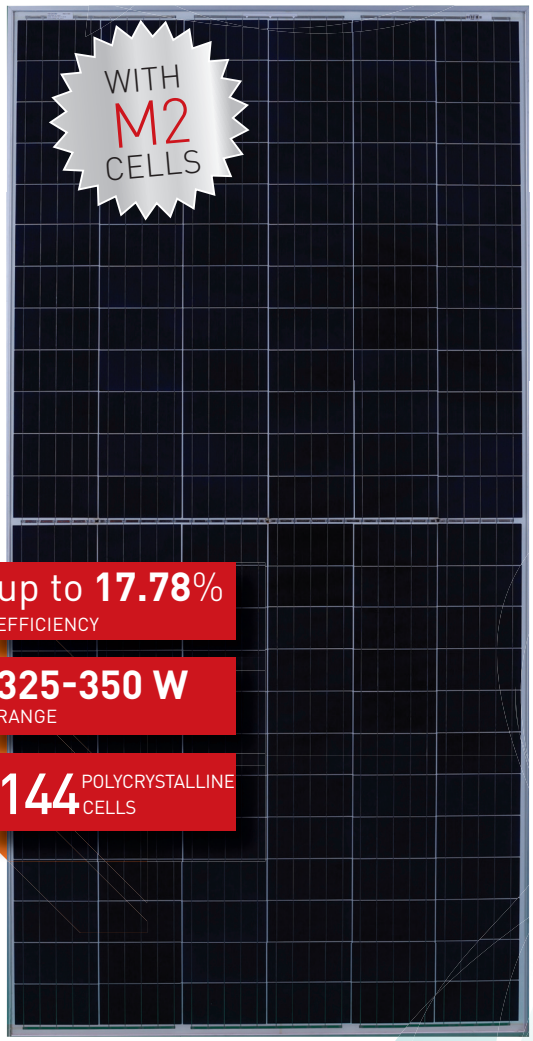
CREATING CLIMATE FOR CHANGE

MAXIMUM EFFICIENCY %	POSITIVE POWER TOLERANCE WP	CELLS	MODULE TECHNOLOGY
17.78	0~+4.99	M2 144	**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

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

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

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TECHNICAL DATA
ELDORA GRAND PLUS 325-350W

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

Electrical Data[1,2] All Data refers to STC

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 η(%)	16.51	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 NOCT[3]

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/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

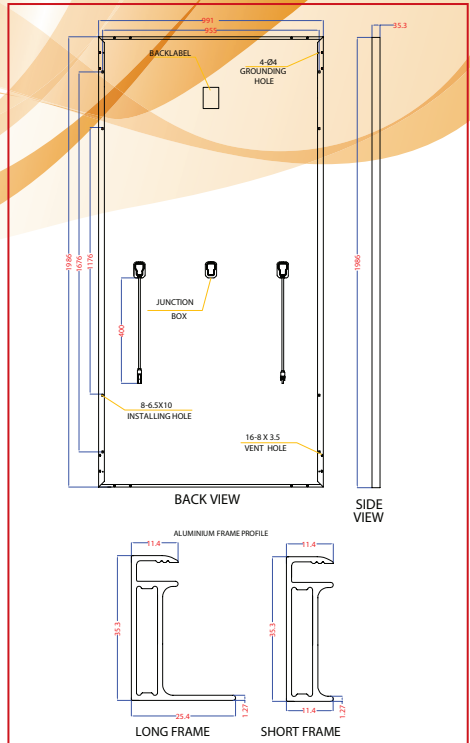
Length × Width × Height	1986 × 991 × 36 mm (78.18 × 39.01 × 1.42 inches)
Weight	21 kg (46.29 lbs)
Junction Box	IP68, 3 bypass diodes
Cable & Connectors	400 mm (15.75 inches) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate#	3.2 mm (0.13 inches) high 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.

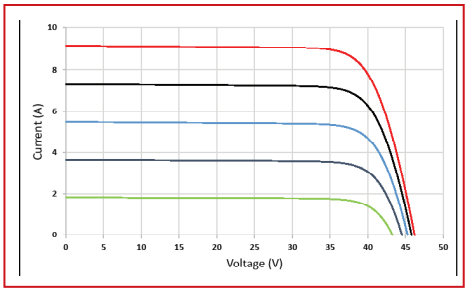
Warranty and Certifications

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

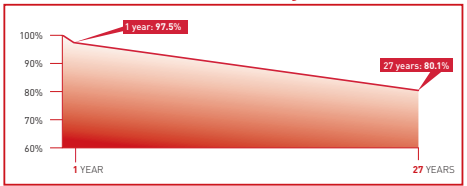
Dimensions in mm



Typical I-V Curves[4]



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.