

TECHNICAL DATA

ELDORA GRAND PLUS

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)	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	8.50	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. 1.2) 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

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

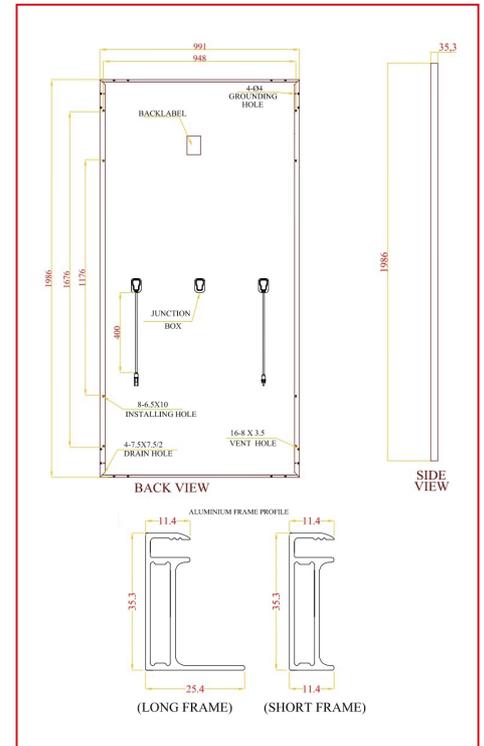
Warranty and Certifications

Product Warranty**	10 years
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, IS/IEC 61730, IEC 61701, IEC 62716 [^] , IEC 60068-2-68 [^] , IEC 62804, CE, CEC (California) [^] , UL 1703, IS 14286

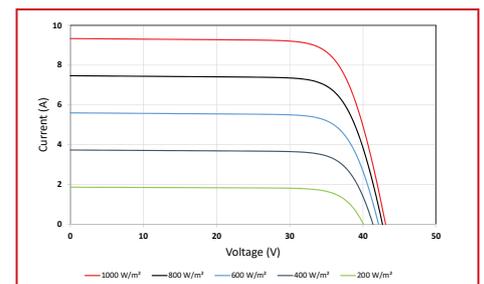
Packaging Information

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

Dimensions in mm

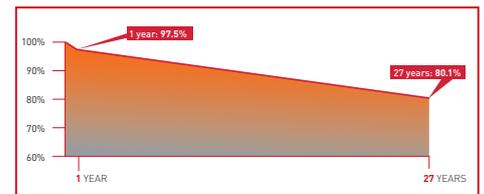


Typical I-V Curves⁴



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.

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.

Vikram Solar & Eldora and the accompanying Logos are trademarks of Vikram Solar Limited registered in India