ELDORA GRAND

**HIGHER OUTPUT OF MODULE POWER**
by reducing cell to module power loss

Designed for very **HIGH AREA EFFICIENCY**
ideally suited for roof-top and ground-mounted applications

**EXTREMELY RELIABLE PRODUCT**
suiting harsh environment conditions
withstanding 2400Pa Wind load, 5400Pa Snow load

**MAXIMUM SYSTEM VOLTAGE INCREASED TO 1500VDC** (IEC & UL),
increased string length, low BOS cost

**QUALITY AND SAFETY**
- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest international standards
- 100% EL tested to minimise micro crack
- Excellent anti-PID performance
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- 3rd Party validated PAN file
- Certified for sand and dust test

**APPLICATIONS**
- On-grid large scale utility systems
- On-grid rooftop residential, commercial and industrial roof top installations
- Off-grid residential systems

ELDORA VSP.72.AAA.05 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 315-340 WATT

www.vikramsolar.com Email: sales@vikramsolar.com
**TECHNICAL DATA**

**ELDORA GRAND**

**THIS DATASHEET IS APPLICABLE FOR:** ELDORA VSP.72.AAA.05 (AAA=315-340)

### Electrical Data\(^{1,2}\)

All Data refers to STC

- Peak Power \(P_{\text{max}}\) (Wp) 315 320 325 330 335 340
- Maximum Voltage \(V_{\text{mp}}\) (V) 37.5 37.7 37.8 38.0 38.1 38.2
- Maximum Current \(I_{\text{mp}}\) (A) 8.40 8.50 8.60 8.70 8.80 8.91
- Open Circuit Voltage \(V_\text{o}\) (V) 45.8 46.0 46.2 46.3 46.5 45.7
- Short Circuit Current \(I_{\text{sc}}\) (A) 8.92 9.03 9.13 9.24 9.35 9.46
- Module Efficiency \(\eta\) (%) 16.23 16.49 16.75 17.01 17.26 17.52

\(^{1}\) STC: 1000 W/m\(^2\) irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. \(^{2}\) Power measurement uncertainty is within ±1.3%.

### Electrical Parameters at NOCT\(^{3}\)

- Power (W) 233.2 237.2 240.6 244.7 248.2 251.6
- \(V_{\text{mp}}\) at \(P_{\text{max}}\) (V) 34.6 34.8 34.9 35.0 35.1 35.2
- \(I_{\text{mp}}\) at \(P_{\text{max}}\) (A) 6.74 6.82 6.90 6.99 7.06 7.13
- \(V_\text{o}\) (V) 42.4 42.6 42.8 42.9 43.1 42.3
- \(I_{\text{sc}}\) (A) 7.22 7.31 7.39 7.47 7.56 7.64

\(^{3}\) NOCT irradiance 800 W/m\(^2\), ambient temperature 20°C, wind speed 1 m/sec.

### Temperature Coefficients (Tc) permissive operating conditions

- \(\beta\) of Open Circuit Voltage \(-0.29\%/°C\)
- \(\alpha\) of Short Circuit Current \(0.057\%/°C\)
- \(\gamma\) of Power \(-0.38\%/°C\)

### Maximum System Voltage

1500 V

### NOCT

44°C ± 2°C

### Temperature Range

-40°C to +85°C

### Mechanical Data

- Length × Width × Height 1956 × 992 × 36 mm (77.01 × 39.06 × 1.42 inches)
- Weight 20.7 kg (45.63 lbs)
- Junction Box IP68/IP67, 3 bypass diodes
- Cable & Connectors 1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors/Amphenol
- 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, 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, UL 1703, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, MCS, CE, CAN/CSA 61730, CE0201, IEC 61428

\(^{1}\) All \(^{1}\) certifications are under progress. \(^{2}\) 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.

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