





ELDORA VSP.72.AAA.03.04 | POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 310-330 WATT

# ELDORA GRAND ULTIMA SILVER SERIES





**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



Up to +2.5 Wp **POSITIVE POWER OUTPUT TOLERANCE GUARANTEED** ensuring
better ROI



Extremely **RELIABLE PRODUCT** suiting all environment conditions



Engineered to provide EXCELLENT LOW LIGHT RESPONSE



Extremely NARROW POWER BINNING
TOLERANCE to reduce current mismatch loss in single string













### **QUALITY AND SAFETY**

- ◆ 27 years of linear power output warranty \*\*
- Rigorous quality control meeting the highest international standards
- 100% EL tested to ensure micro crack free modules
- Certified for PID resistance
- Certified for salt mist corrosion resistance severity VI
- ◆ Certified for ammonia resistance
- 3rd Party validated PAN file\*

### APPLICATIONS

- ♦ On-grid large scale utility systems
- On-grid rooftop residential, commercial and industrial roof top installations
- ♦ Off-grid residential systems
- ◆ Solar pumping applications

# **TECHNICAL DATA**

# **ELDORA GRAND ULTIMA SILVER SERIES**



THIS DATASHEET IS APPLICABLE FOR: ELDORA VSP.72.AAA.03.04 (AAA=310-330)

# Electrical Data 1 All Data refers to STC

Peak Power P <sub>max</sub> (Wp)	310	312.5	315	317.5	320	322.5	325	327.5	330
Maximum Voltage V <sub>mpp</sub> (V)	37.4	37.4	37.5	37.6	37.7	37.7	37.8	37.9	38.0
Maximum Current I <sub>mpp</sub> (A)	8.3	8.35	8.4	8.45	8.5	8.55	8.6	8.65	8.7
Open Circuit Voltage V <sub>oc</sub> (V)	45.7	45.8	45.8	45.9	46.0	46.1	46.2	46.2	46.3
Short Circuit Current I <sub>sc</sub> (A)	8.81	8.87	8.92	8.98	9.03	9.08	9.13	9.19	9.24
Module Efficiency η(%)	16.0	16.1	16.2	16.4	16.5	16.6	16.7	16.9	17.0

1) STC: 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

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

#### Electrical Parameters at NOCT<sup>2</sup>

Power (W)	227.3	229.1	231.2	232.8	234.6	236.5	238.3	240.1	242.0
V@P <sub>max</sub> (V)	34.2	34.3	34.4	34.4	34.5	34.6	34.6	34.7	34.8
I@P <sub>max</sub> (A)	6.65	6.69	6.73	6.77	6.80	6.84	6.88	6.92	6.95
V <sub>oc</sub> (V)	42.4	42.5	42.5	42.5	42.6	42.6	42.7	42.7	42.7
I <sub>sc</sub> (A)	7.14	7.18	7.22	7.26	7.30	7.34	7.38	7.42	7.46

# Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.31%/°C
Tc of Short Circuit Current (α)	0.052%/°C
Tc of Power (γ)	-0.41%/°C
Maximum System Voltage	1000 V
NOCT	44°C ± 2°C
Temperature Range	-40°C to + 85°C

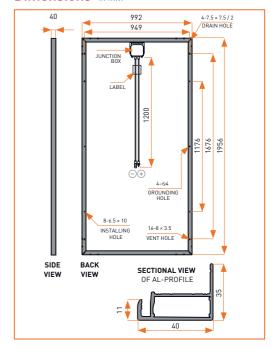
## **Mechanical Data**

Length × Width × Height	1956 × 992 × 40 mm (77.01 × 39.06 × 1.57 inches)	
Weight	27 kg (59.52 lbs)	
Junction Box	IP67, 3 bypass diodes	
Cable & Connectors	1200 mm (47.24 inches) length cables, SOLARLOK PV4/MC4 Compatible/MC4 Connectors	
Application Class	Class A (Safety class II)	
Superstrate	4 mm (0.16 inches) high transmission low iron tempered glass, AR coated	
Cells	72 polycrystalline 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	
Maximum Series Fuse Rating 15 A		

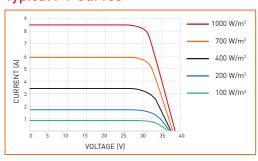
# **Warranty and Certifications**

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
	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, UL1703, CE, MCS, CEC*, PV Cycle*, IEC 62804, CAN/CAS 61730

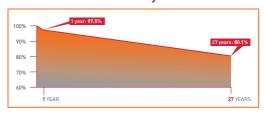
### Dimensions in mm



# Typical I-V Curves



# **Performance Warranty**



# **Packaging Information**

Quantity/Pallet	25
Pallets/Container (40'HC)	24
Quantity/Container (40'HC)	600

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.