



powered by nature

powered for future

ELDORA 280 POLY-CRYSTALLINE SOLAR PV MODULE

Features

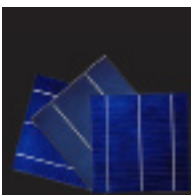
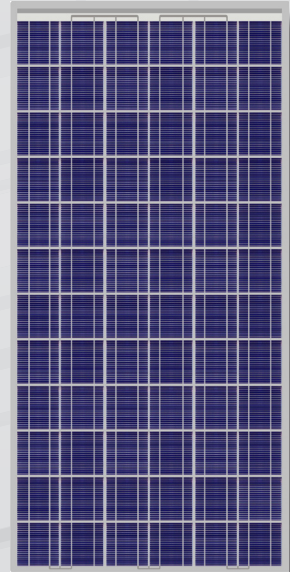
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed 0~+4.99 Wp power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed 5400Pa mechanical loading test), and extreme temperature variations
- Optimal output over decades, with very good low light response

Quality and Safety

- 25-year limited power output warranty **
- Rigorous quality control meeting the highest International standards
- ISO 14001 (Environment Health and Safety) Certified Factory
- ISO 9001:2008 (Quality Management System) Certified Factory
- TUV: IEC 61215, IEC 61730, IEC 61701, CE, UL 1703, MCS
- Strict adherence to Electroluminescence Testing ensuring micro-crack free Modules

Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems



High efficiency anti reflection coating cells with advanced texturing and passivation process which provides enhanced power output.



An IP65 rated junction box consisting of serial or parallel connections of photovoltaic arrays and new positive latching connectors, highly protected from moisture, dust and water. Helps in proper power generation and measurement of electrical output. Consists of 15A diodes, which prevent power loss resulting in no effect on output. Protects from fire too.



High quality interconnecting ribbons used as a conductor which reduces power loss and increases efficiency and life of the solar module. This ribbon ensures the best solderability between solar cells.



Eva coated back sheets are adhesive in nature thus helps in proper encapsulation which prevents moisture penetration. Has high electrical insulation and remains untornd in harsh weather conditions. Toughened and textured glass, with low iron content and transmission ability more than 92%.

Electrical data - All data refers to STC (AM 1.5, 1000w/m², 25°C)

Type	ELV 275	ELV 280	ELV 285	ELV 290	ELV 295	ELV 300
Nominal power P _{mp} (0~+4.99Wp)	275	280	285	290	295	300
Nominal voltage V _{mp} (V)	35.80	36.00	36.20	36.40	36.60	36.80
Nominal current I _{mp} (A)	7.70	7.80	7.90	8.00	8.10	8.20
Open circuit voltage V _{oc} (V)	44.60	44.80	45.00	45.20	45.40	45.60
Short circuit current I _{sc} (A)	8.35	8.45	8.50	8.60	8.70	8.80
Module efficiency (V)	14.32	14.58	14.84	15.10	15.36	15.62

* Electrical Parameters tolerance ± 3% except P_{mp}

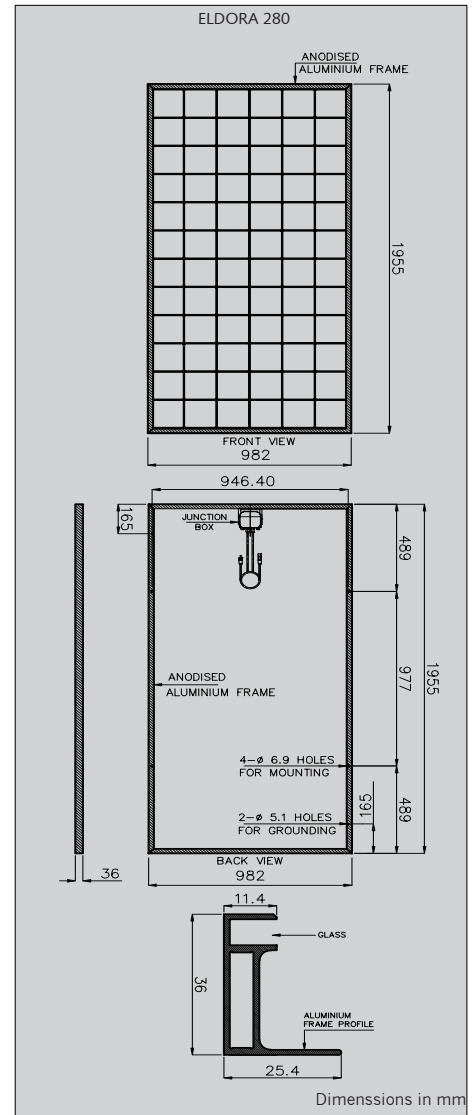
Temperature coefficients (T_c) and permissible operating conditions

T _c of Open circuit voltage (β)	-0.32 % /°C
T _c of short circuit current (α)	0.04 % /°C
T _c of Power (γ)	-0.45 % /°C
Maximum system voltage	1000 V(TUV), 600V(UL)
NOCT	45°C ± 2°C
Temperature range	-40°C to + 85°C

* NOCT irradiance 800 w/m², ambient temperature 20° C, wind speed 1 m/sec

Mechanical specification

Length	1955 ± 1.5mm
Width	982 ± 1.5mm
Height	36mm (Optional 42mm)
Weight	20.50 Kgs
Junction Box	IP65, sunbolts / Tyco with 3 bypass diodes
Cable & Connectors	4mm ² , TUV & UL Certified, 1000 mm
Application class	CLASS A (Safety Class II)
Front cover	High Transmission, Low Iron, Tempered Glass
Cells	72 pcs poly-crystalline solar cells (156 X 156mm), 2BB & 3BB
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back cover	Composite film
Frame	Anodized aluminium frame with twin wall profile
Maximum surface load capacity	According to IEC 61215, 5400 Pa



Guarantees and Certifications

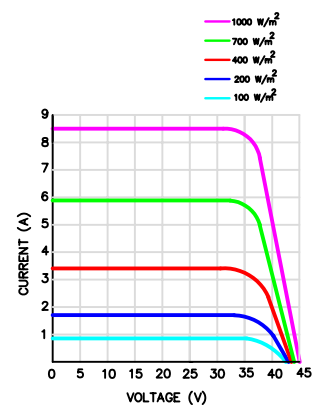
Product Warranty**	5 Years
Performance Guarantee**	Guaranteed Power Output of 90% for 10 Years and 80% for 25 Years
Approvals and Certificates	TUV: IEC 61215 Ed.2, IEC 61730, IEC 61701, UL1703, MCS, CEC Listed

Packing Information

Quantity/Pallet: 28
Pallets/Container (40'HC): 24
Quantity/Container (40'): 672

Your specialty retailer:

I-V Curves of PV module Eldora 280



*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT

** Refer to Vikram Solar's warranty document for terms and conditions

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