ELDORA

High Efficiency Solar PV Modules

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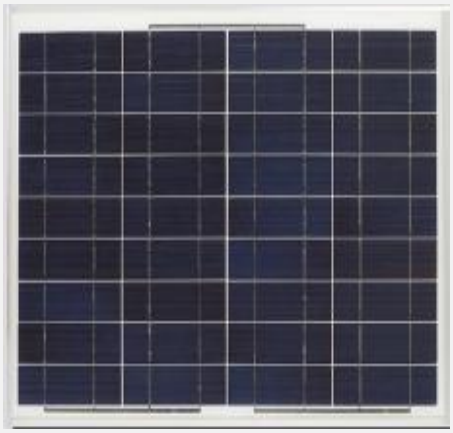
ELDORA -MICRO SERIES

36 Cell Polycrystalline Solar PV Module

This Datasheet is Applicable for Model: ***Eldora-20P***



Features

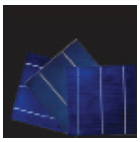
- Designed for Home Lighting and Solar Lantern Applications.
- Guaranteed positive power output tolerance, ensuring high return on investment.
- Extremely reliable product suiting all environmental conditions .
- Engineered to provide excellent low light response.

Quality and Safety

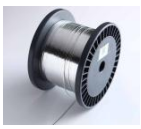
- 25 year limited power output warranty **
- Rigorous quality control meeting the highest international standards
- ISO 14001 (Environmental Health and Safety) Certified Factory
- ISO 9001:2008 (Quality Management System) Certified Factory
- BSOHSAS 18001(Occupational Health & Safety)Certified Factory
- IEC 61215, IEC 61730 ,MCS Certified
- Certified for Salt Mist Corrosion Resistance (IEC 61701)
- Certified for Ammonia Resistance (IEC 62716)

Recommended Applications

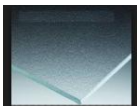
- Home Lighting Applications
- Solar Lantern Applications



High efficiency solar cells with advanced texturing and passivation process which provides enhanced power output



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 soldering between solar cells.



Low Iron Tempered Glass with Special Textured and high light transmission and capture .

An IP65 and fire rated junction box, highly protected from moisture, dust and water. Ideal for good generation and measurement of electrical output .

High Dielectric Strength EVA with optimal gel content. Low water permittivity and UV Resistant Back sheets ensure durability up to 3000 hrs. of Damp Heat Test.

TECHNICAL DATA

ELDORA 20P

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Electrical Data – All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Type	Eldora- 20P	
Nominal Power, Pmpp (0 ~+ 4.99 Wp)	18	20
Nominal Voltage, Vmpp (V)	17	17.15
Nominal Current, Impp (A)	1.08	1.18
Open Circuit Voltage, Voc (V)	21.25	21.44
Short Circuit Current, Isc (A)	1.17	1.27
Module Efficieny (%)	9.21	10.23

*Electrical Parameters' tolerance ± 3% except Pmpp

Temperature Coefficients (Tc) and permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.31 % /°C
Tc of Short Circuit Current (α)	0.058 % /°C
Tc of Power (γ)	-0.41% /°C
Maximum System Voltage	1000 V(TÜV)
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

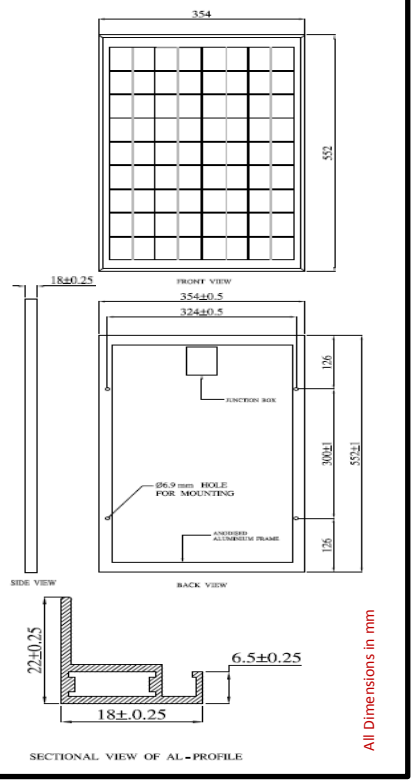
*NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Length	552 mm
Width	354 mm
Height	18 mm
Weight	2.8 kg
Junction Box	IP65
Cable & Connectors	N.A
Application Class	CLASS A (Safety Class II)
Superstrate	High Transmission Low Iron Tempered Glass
Cells	36 no's Poly-crystalline solar cut cells ; 2 or 3 bus bars
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Frame	Anodized aluminum frame with twin wall profile

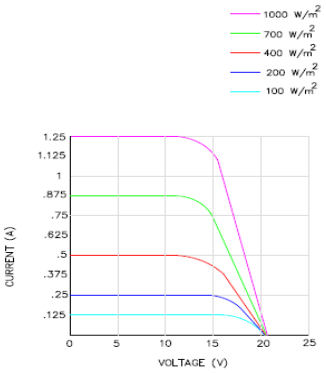
Guarantees and Certifications

Product Warranty**	5 Years
Performance Guarantee**	Guaranteed Power Output of 90% for 12 years and 80% for 25 years
Approvals and Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701 , IEC 62716,MCS, PV Cycle

Eldora 20 P



IV Curves of Eldora 20P



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

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

Specification included in this datasheet are subject to change without notice. Electrical data without guarantee.

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