

ELDORA

High Efficiency Solar PV Modules



ELDORA MICRO SERIES | POLYCRYSTALLINE SOLAR PV MODULES | 36 CELLS | 80 WATT

THE DATASHEET IS APPLICABLE FOR: ELDORA 80P

ELDORA MICRO SERIES



Designed for

**Home Lighting &
Street Lighting Applications**

suited for roof-top and
ground mounted applications



Up to

**+ 5 WP POSITIVE
POWER OUTPUT TOLERANCE
GUARANTEED** ensuring high ROI



Extremely

RELIABLE PRODUCT

suited all environment conditions



Engineered to provide

**EXCELLENT LOW
LIGHT RESPONSE**



QUALITY AND SAFETY

- ◆ 25 years of limited power output warranty**
- ◆ Rigorous quality control meeting the highest international standards
- ◆ Certified for salt mist corrosion resistance
- ◆ Certified for ammonia resistance

CERTIFICATES

- ◆ Factory: ISO 14001:2004, ISO 9001:2008, BS OHSAS 18001:2007, SA 8000*
- ◆ Products: IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, MCS, PV Cycle

APPLICATIONS

- ◆ Street lighting applications



TECHNICAL DATA

ELDORA MICRO SERIES (36 CELLS)



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Electrical Parameters

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

Peak Power (0-4.99Wp) P _{max} (Wp)	80
Maximum Voltage V _{mpp} (V)	18.09
Maximum Current I _{mp} (A)	4.43
Open Circuit Voltage V _{oc} (V)	22.24
Short Circuit Current I _{sc} (A)	4.76
Module Efficiency (%)	14.05

1) Tolerance ± 3% except P_{max}

Temperature Coefficients

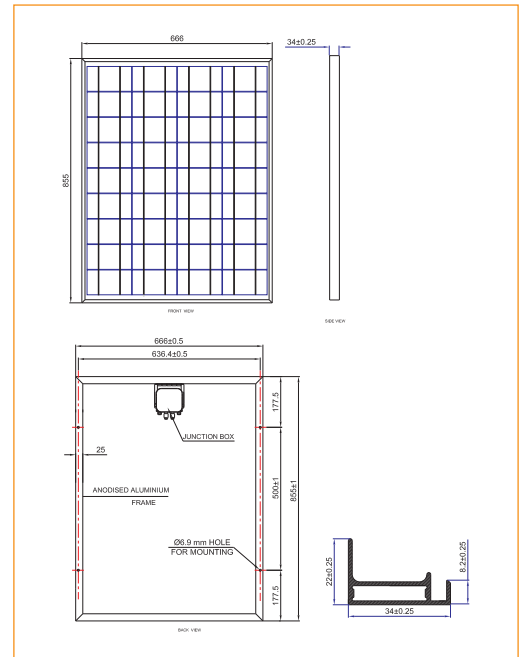
(T_c) and permissible operating conditions

T _c of Open Circuit Voltage (β)	-0.31 % /°C
T _c of Short Circuit Current (α)	0.058 % /°C
T _c of Power (γ)	-0.41 % /°C
Maximum System Voltage	1000 V(TÜV)
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

Dimensions

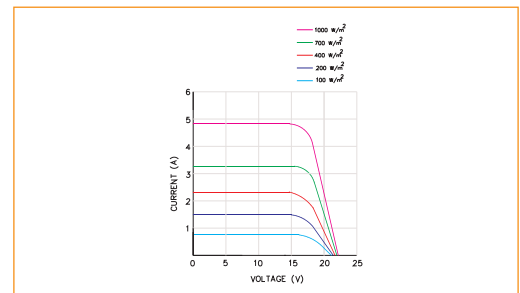
in mm



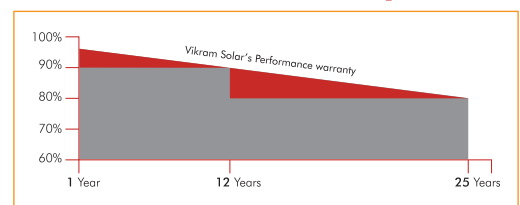
Mechanical Data

Length x Width x Height	855mm x 666mm x 34mm
Weight	6.8kg
Junction Box	IP65, 2 Bypass diodes
Cable & Connectors	NA
Application Class	Class A (Safety Class II)
Superstrate	High transmission low iron tempered glass
Cells	36 polycrystalline solar cells; 2BB/3BB
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite film
Frame	Anodized aluminium frame with twin wall profile

IV Curves



Performance Warranty



Warranty and Certifications

Product Warranty**	5 Years
Performance Warranty**	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

* All (*) Certifications under progress . ** Refer to Vikram Solar's warranty document for terms and conditions

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*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT | Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee.

VSPL/ENG/SC/10-Rev01