

# ELDORA

High Efficiency Solar PV Modules



ELDORA MICRO SERIES | POLYCRYSTALLINE SOLAR PV MODULES | 36 CELLS | 30-35 WATT

THE DATASHEET IS APPLICABLE FOR: ELDORA 30P

# ELDORA MICRO SERIES



Designed for

**HOME LIGHTING &  
SOLAR LANTERN  
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 ammonia resistance

## CERTIFICATES

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

## APPLICATIONS

- ◆ Home lighting applications
- ◆ Solar lantern applications



# TECHNICAL DATA

## ELDORA MICRO SERIES (36 CELLS)



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### Electrical Parameters

All data refers to STC (AM 1.5, 1000 W/m<sup>2</sup>, 25°C)

Peak Power (0-4.99Wp) P <sub>max</sub> (Wp)	30	35
Maximum Voltage V <sub>mppt</sub> (V)	17.34	17.74
Maximum Current I <sub>mppt</sub> (A)	1.74	1.99
Open Circuit Voltage V <sub>oc</sub> (V)	21.62	21.85
Short Circuit Current I <sub>sc</sub> (A)	1.88	2.18
Module Efficiency (%)	11.38	13.27

1) Tolerance ± 3% except P<sub>max</sub>

### Temperature Coefficients

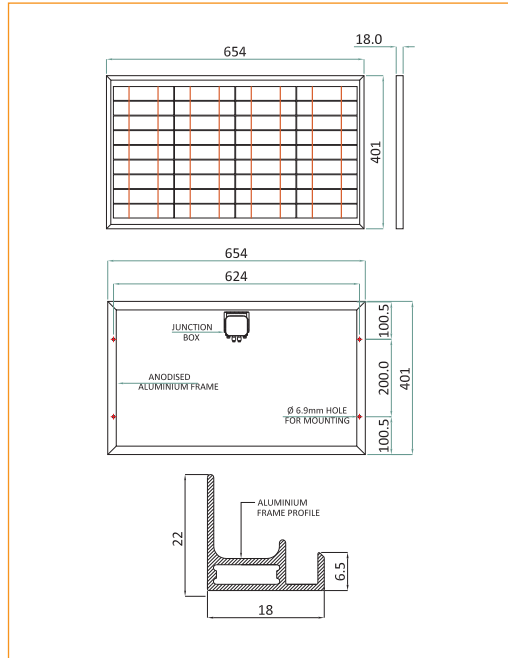
(T<sub>c</sub>) and permissible operating conditions

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

NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

### Dimensions

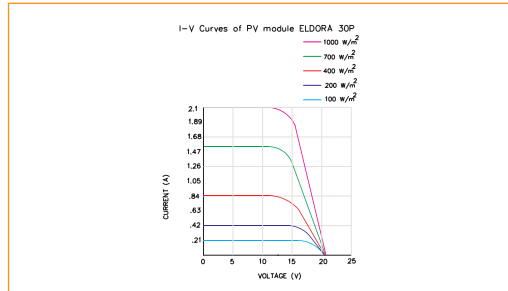
in mm



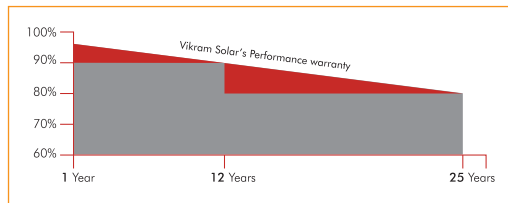
### Mechanical Data

Length x Width x Height	401mmx654mmx18mm
Weight	3.2kg
Junction Box	IP65
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 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.

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