



ELDORA VSPBB.60.AAA.03.04 | POLYCRYSTALLINE SOLAR PV MODULES | 60 CELLS | 260-285 WATT

ELDORA ULTIMA ALL BLACK 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



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 minimise micro crack
- Excellent anti-PID performance
- Certified for salt mist corrosion resistance
- Certified for ammonia resistance

APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid systems

VSL/ENG/SC/100-Rev 05 www.vikramsolar.com Email: sales@vikramsolar.com

TECHNICAL DATA

ELDORA ULTIMA ALL BLACK SERIES



THIS DATASHEET IS APPLICABLE FOR: ELDORA VSPBB.60.AAA.03.04 (AAA=260-285)

Electrical Data^{1,2} All data refers to STC

Peak Power P _{max} (0 ~+ 2.49 Wp)	260	265	270	275	280	285
Maximum Voltage V _{mpp} (V)	30.8	30.9	31	31.2	31.3	31.5
Maximum Current I _{mpp} (A)	8.43	8.58	8.71	8.82	8.95	9.05
Open Circuit Voltage V _{oc} (V)	37.9	38.1	38.3	38.5	38.6	38.9
Short Circuit Current I _{sc} (A)	8.93	9.03	9.12	9.22	9.35	9.45
Module Efficiency η(%)	15.98	16.29	16.60	16.90	17.21	17.52

1] STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2] Power measurement uncertainty is within +/- 3%.

Electrical Parameters at NOCT³

Power (W)	191.9	195.6	199.3	203.5	206.7	210.4
V@P _{max} (V)	28.6	28.7	28.8	29.0	29.1	29.2
I@P _{max} (A)	6.69	6.80	6.90	7.03	7.09	7.19
V _{oc} (V)	34.9	35.1	35.3	35.5	35.6	35.8
I _{sc} (A)	7.26	7.34	7.41	7.49	7.57	7.65

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

Temperature Coefficients (Tc) 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
NOCT	45°C± 2°C
Temperature Range	-40°C to + 85°C

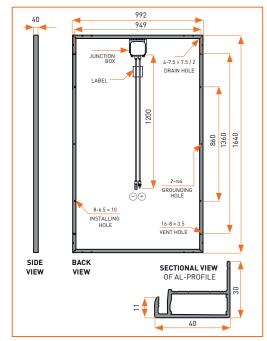
Mechanical Data

h × Width × Height 16	540 × 992 × 40 mm (64.57 × 39.06 × 1.57 inches)
t 18	3.50 kg (40.79 lbs)
on Box IP	267/IP68, 3 Bypass diodes
	200 mm (47.24 inches) length cables, C4 Compatible/MC4 Connectors
ation Class Cl	lass A (Safety class II)
	2 mm (0.13 inches) high transmission low iron tempered glass, R coated
60) Polycrystalline, 5BB solar cells
ncapsulant E\	VA (Ethylene Vinyl Acetate)
Sheet Bl	lack Composite film
e Bl	lack anodized aluminium frame with twin wall profile
anical Load Test 54	400 Pa (Snow load), 2400 Pa (Wind load)
num Series Fuse Rating 15	5 A
strate 3. Af 60 ncapsulant E\ Sheet BI e BI anical Load Test 54	2 mm (0.13 inches) high transmission low iron tempered R coated D Polycrystalline, 5BB solar cells VA (Ethylene Vinyl Acetate) lack Composite film lack anodized aluminium frame with twin wall profile 400 Pa (Snow load), 2400 Pa (Wind load)

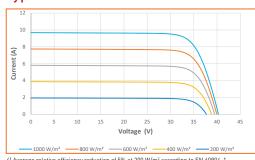
Warranty and Certifications

Product Warranty**	12 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
Approvals and Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, MCS, CE, CEC^, PV Cycle^ JET^ UJ 1703

Dimensions in mm

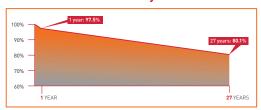


Typical I-V Curves4



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

Performance Warranty



Packaging Information

Quantity/Pallet	25
Pallets/Container (40'HC)	28
Quantity/Container (40'HC)	700

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. *Vikram Solar and Eldora are Trademarks of Vikram Solar Limited registered in India

