

⚡ 150 -170 Watt

●●● 36 Cells Series

☒ Poly Crystalline Solar PV Module



bluebird SOLAR
co-powering the future



Salient Features:



High conversion efficiency.



Outstanding low Light and longer wavelength performance.



Only positive power output tolerance.



Resistant to PID, Salt-Mist & Ammonia corrosion.

High Power PERC Modules:

- Designed with new generation PERC Technology.
- Higher cell Efficiency than conventional Polycrystalline & Monocrystalline PV modules.
- More power output per sq. meter area.
- Lower temperature Co-efficient.

Quality & Safety



Certified for Salt Mist Corrosion Resistance



100% EL Inspected to ensure micro crack free modules.



Certified to withstand harsh environmental conditions.



25 Yrs. of Linear output power.



PID resistant cells & encapsulants.

Applications



Street lighting applications and portable solar products



Telecommunication towers applications



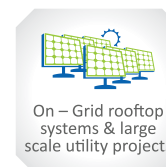
Electric vehicles charging station



Defense and Offshore applications



Solar water pumping systems



On – Grid rooftop systems & large scale utility projects



Off – Grid rooftop systems for residential buildings



RoHS



CORPORATE OFFICE

70, Rajasthani Udyog Nagar Industrial Area
G.T. Karnal Road, (Opposite Jahangirpuri Metro Station)
Delhi- 110033

WORKS

Plot No. 5, Ecotech,
Udyog Vihar, Greater Noida,
Uttar Pradesh - 201306

☎ 011-47052208/09
🌐 www.bluebirdsolar.in
✉ info@bluebirdsolar.in

TECHNICAL DATA



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Series	Type	Power
SUNBLAZE 36 P XXX (XXX = 150 TO 160)	BBS P 150- P 160	150~160 Watt
SUNBLAZE+ 36 P XXX (XXX = 165 TO 170)	BBS P 165- P 170	165~170 Watt

Module Series	SUNBLAZE			SUNBLAZE+	
	BBS P 150	BBS P 155	BBS P 160	BBS P 165	BBS P 170

Electrical Characteristics at STC:

Parameter	BBS P 150	BBS P 155	BBS P 160	BBS P 165	BBS P 170
Maximum Power Pmax (Wp)	150	155	160	165	170
Maximum Voltage Vmpp (V)	18.3	18.7	19.0	19.2	19.4
Maximum Current Imp(A)	8.21	8.29	8.42	8.60	8.73
Open Circuit Voltage Voc (V)	22.0	22.3	22.6	23.1	23.3
Short Circuit Current Isc(A)	8.79	8.84	8.91	9.12	9.23
Module Efficiency(%)	15.2	15.7	16.2	16.7	17.2

STC :1000W/m2 irradiance ,25°C cell temperature ,AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of<5% for every 200W/m² reduction in Irradiance, according to EN 60904-1

Electrical Characteristics at NOCT:

Parameter	BBS P 150	BBS P 155	BBS P 160	BBS P 165	BBS P 170
Maximum Power Pmax (Wp)	109	113	117	121	125
Maximum Voltage Vmpp (V)	16.30	16.53	16.75	16.90	17.17
Maximum Current Imp(A)	6.70	6.81	6.96	7.16	7.27
Open Circuit Voltage Voc (V)	20.10	20.30	20.41	20.53	20.67
Short Circuit Current Isc(A)	7.04	7.15	7.29	7.40	7.52

NOCT : 800W/m2 irradiance , 20°C ambient temperature, Wind Speed 1m/sec

Temperature coefficient (Tc) and permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.31%/°C ± 0.02
Tc of Short circuit Current (α)	0.057%/°C ± 0.01
Tc of Power (γ)	-0.41%/°C ± 0.02
NOCT	45 ± 2°C
Maximum series fuse ratings	15A
Temperature Range	-40°C to + 85°C
Maximum System Voltage	1000 V DC
Limiting Reverse Current (Ir)	9.0 A

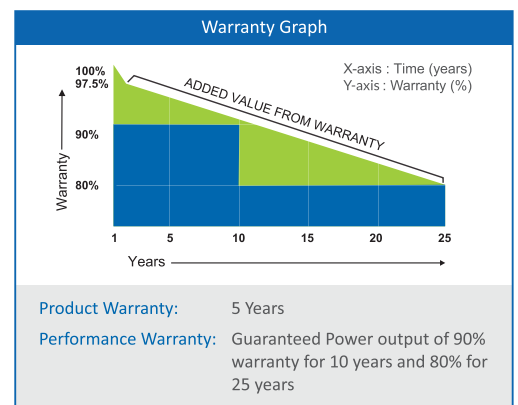
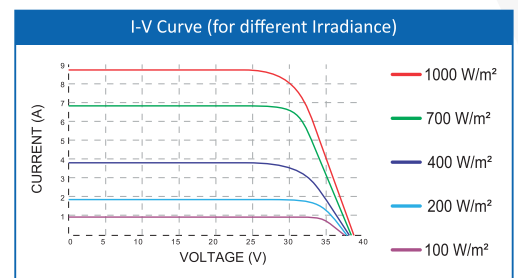
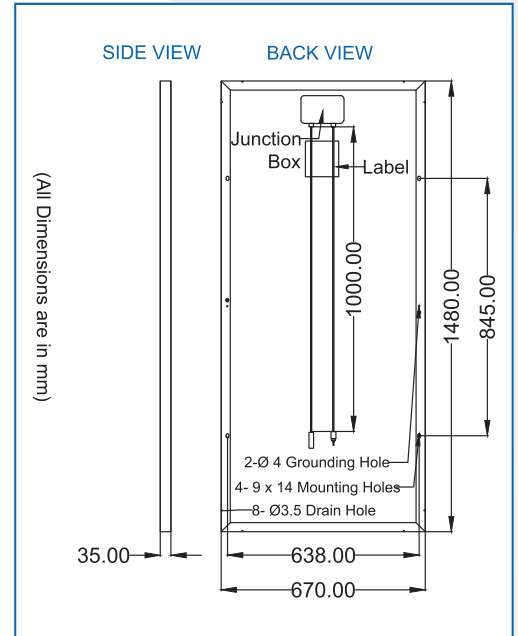
Mechanical Data

Dimension (L x W x H) (in mm)	1480mm x 670mm x 35mm (± 1.5mm)
Solar Cells	Sunblaze: 36 (9x4) Polycrystalline solar cells ,4BB, (156.75x156.75mm – 6inch)
	Sunblaze Plus: 36 (9x4) Polycrystalline PERC solar cells, 4BB, (156.75x156.75mm – 6inch)
Weight	11.6 Kg
Junction Box	IP 67 rated with 2 bypass diodes
Superstrate (Glass)	3.2 mm high transmission low iron tempered (AR coated)
Cell encapsulant	EVA (Ethylene Vinyl Acetate) – FC/UFC
Back Sheet	Composite Film – White (Black & Transparent optional)**
Frame	Silver Anodized Aluminum Frame with twin wall profile (Black Optional)**
Application class	Class A (safety class II)
Mechanical Load Test	Sustain heavy wind & Snow Loads (2400 Pa & 5400 Pa or 550 Kg/m ²)
	Maximum diameter of 24 mm with hail impact of 83 km/h

Packaging Information

Container	20'GP	40'GP
Pallets/Container	12	28
Pieces/Container	600	1200

**Refer to Bluebird Solar's warranty documents for terms and conditions
**Black and transparent backsheets and black frame module without IEC certification



Approvals and certificates	
Products:	IEC 61215 Ed 2, ROHS, IEC 61730, IEC 61701, CE, UL 1703, CEC, CE,
Manufacturing:	ISO 9001:2015, ISO 14001: 2015

Specifications and electrical data included in this datasheet are subject to change without notice. Please confirm your requirements with the company representative while placing your order.