

⚡ 40 -125 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



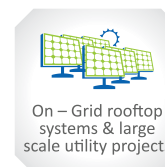
Electric vehicles charging station



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 = 40 TO 125)	BBS P 40- P 125	40~125 Watt

Module Series	SUNBLAZE					
	BBS P 40	BBS P 50	BBS P 60	BBS P 75	BBS P 100	BBS P 125

Electrical Characteristics at STC:

Parameter	BBS P 40	BBS P 50	BBS P 60	BBS P 75	BBS P 100	BBS P 125
Maximum Power Pmax (Wp)	40	50	60	75	100	125
Maximum Voltage Vmpp (V)	18	18	18	18	18	18
Maximum Current Impp(A)	2.22	2.78	3.34	4.18	5.56	6.95
Open Circuit Voltage Voc (V)	22	22	22	22	22	22
Short Circuit Current Isc(A)	2.56	3.15	3.71	4.55	5.93	7.31
Module Efficiency(%)	13.00	14.00	14.00	14.40	14.70	15.20

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:

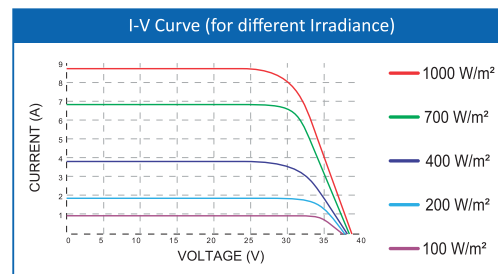
Parameter	BBS P 40	BBS P 50	BBS P 60	BBS P 75	BBS P 100	BBS P 125
Maximum Power Pmax (Wp)	28.7	35.8	43.0	53.8	72.0	90.9
Maximum Voltage Vmpp (V)	16.41	16.41	16.41	16.41	16.41	16.41
Maximum Current Impp(A)	1.75	2.18	2.62	3.28	4.39	5.54
Open Circuit Voltage Voc (V)	19.93	19.93	19.93	19.93	19.93	19.93
Short Circuit Current Isc(A)	1.98	2.39	2.86	3.56	4.81	6.02

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

Dimension(LxWxH)(in mm)	BBS P 40	BBS P 50	BBS P 60	BBS P 75	BBS P 100	BBS P 125
	475x670x22	550x665x22	650x670x22	780x670x35	1015x670x35	1245x670x35

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
Temperature Range	-40°C to + 85°C
Maximum System Voltage	600/1000 V DC
Limiting Reverse Current (Ir)	3/6/9.0 A



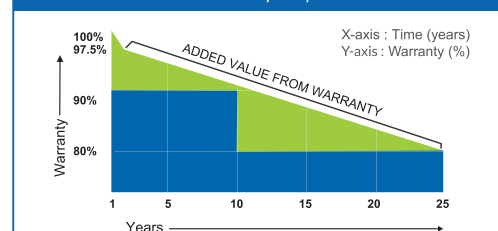
Mechanical Data

Solar Cells	36 Polycrystalline solar cells ,4BB
Junction Box	IP 65 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

**Refer to Bluebird Solar's warranty documents for terms and conditions

**Black and transparent backsheet and black frame module without IEC certification

Warranty Graph



Product Warranty: 5 Years

Performance Warranty: Guaranteed Power output of 90% warranty for 10 years and 80% for 25 years

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.