

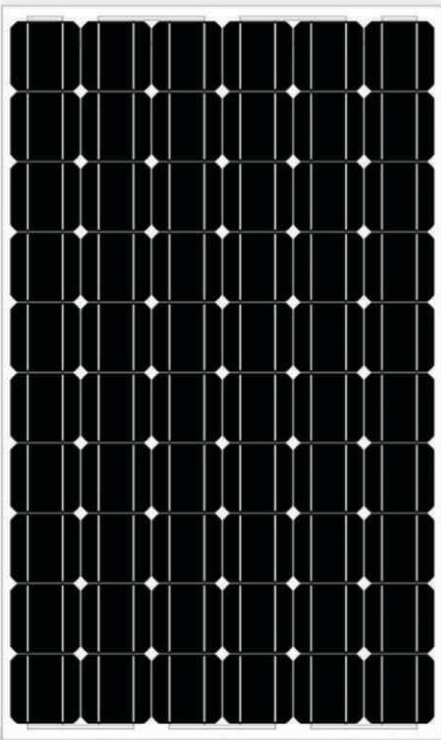
⚡ 280-305 Watt

60 Cells Series

Mono 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



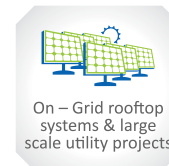
Electric vehicles charging station



Defense and Offshore applications



Solar water pumping systems



On – Grid rooftop systems & large scale utility projects



Off – Grid rooftop systems for residential buildings



RoHS



ISO 9001: 2015



ISO 14001: 2015



CORPORATE OFFICE

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

WORKS

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Uttar Pradesh - 201306

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TECHNICAL DATA



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Series	Type	Power
SUNBLAZE PRIME 60 M XXX (XXX = 280 TO 290)	BBS M 280- M 290	280~290 Watt
SUNBLAZE PRIME+ 60 M XXX (XXX = 295 TO 305)	BBS M 295- M 305	295~305 Watt

Module Series	SUNBLAZE PRIME			SUNBLAZE PRIME+		
	BBS M 280	BBS M 285	BBS M 290	BBS M 295	BBS M 300	BBS M 305

Electrical Characteristics at STC:

	280	285	290	295	300	305
Maximum Power Pmax (Wp)	280	285	290	295	300	305
Maximum Voltage Vmpp (V)	31.83	31.98	32.19	32.46	32.6	32.73
Maximum Current Impp(A)	8.8	8.92	9.02	9.1	9.21	9.32
Open Circuit Voltage Voc (V)	39.01	39.38	39.56	39.68	40.1	40.1
Short Circuit Current Isc(A)	9.43	9.51	9.54	9.6	9.73	9.86
Module Efficiency(%)	17.5	17.7	17.9	18.1	18.4	18.55

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:

	209.0	212.2	216.2	219.7	223.8	227.6
Maximum Power Pmax (Wp)	209.0	212.2	216.2	219.7	223.8	227.6
Maximum Voltage Vmpp (V)	29.81	30.02	30.2	30.39	30.62	30.84
Maximum Current Impp(A)	7.01	7.07	7.16	7.23	7.31	7.38
Open Circuit Voltage Voc (V)	36.18	36.06	36.56	36.78	37.02	37.26
Short Circuit Current Isc(A)	7.63	7.73	7.82	7.87	8.01	8.12

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)	-0.34%/°C ± 0.02
Tc of Short circuit Current (α)	0.07%/°C ± 0.01
Tc of Power (γ)	-0.46%/°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)	15.0 A

Mechanical Data

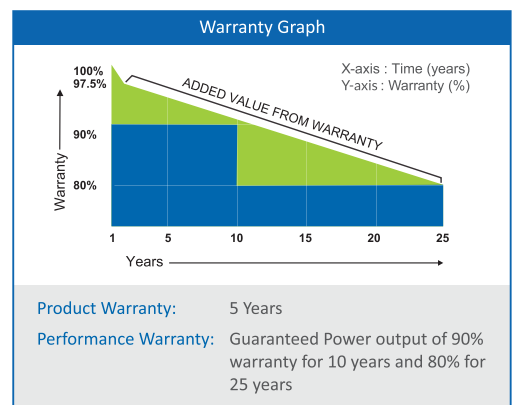
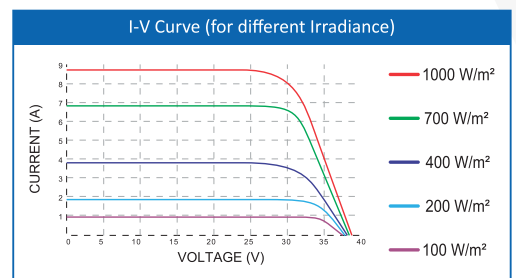
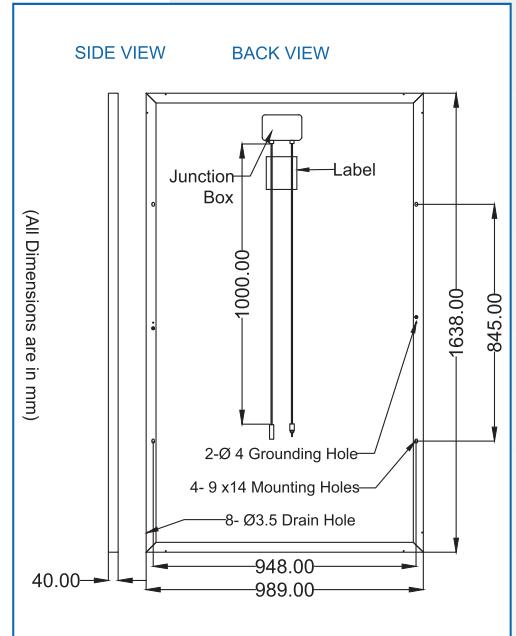
Dimension (L x W x H) (in mm)	1638mm x 989mm x 35mm (± 1.5mm)
Solar Cells	Sunblaze: 60 (10x6) Monocrystalline solar cells ,4BB, (156.75x156.75mm – 6inch)
	Sunblaze Prime: 60 (10x6) Monocrystalline PERC solar cells, 4BB, (156.75x156.75mm – 6inch)
Weight	18.5 Kg
Junction Box	IP 67 rated with 3 bypass diodes
Cables & Connectors	4 sq. m (12AWG) solar cable 1000 mm, 2 Nos. black MC4 compatible connectors
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	336	784

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

**Black and transparent backsheet 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.