

Premium Quality Solar PV Modules



48
Cells

Polycrystalline Solar PV Modules 200-220 W
Mono PERC Solar PV Modules 250-270 W



Increased module power output.



Maximum system voltage
of 1000 V DC.



Reduced BOS cost.



High area efficiency.



Easy installation & handling
for various application.

Why Bluebird ?

- ◆ Backed by a 40 year old reputed brand name.
- ◆ Use of Tier-1 raw material.
- ◆ Intensive R&D, and stringent QC.
- ◆ Highest standards of product performance.
- ◆ Robust supply chain & logistics.

More Reliable Products

- ▮ PID Resistant 5BB cells and encapsulants.
- ▮ Salt mist & ammonia resistant.
- ▮ AR Coated tempered PV grade glass.
- ▮ Only positive power tolerance.
- ▮ Excellent low light performance.
- ▮ Certified to withstand harsh environmental conditions.
- ▮ 100% EL Inspected to ensure micro crack free modules.

 **5 MW +**
Installations

 **3 MW +**
Under Execution

 **25 MW +**
Proposal & Design
Consultancy Delivered

 **30 MW +**
PV Module Sales

Applications



On-grid Large
scale utility
projects



On-grid rooftop
Industrial &
commercial system



Off-grid rooftop
systems for
residential buildings



Solar water
pumping systems



Off-grid systems
for Filling Stations



Electric Vehicles
charging station



Street lighting
applications



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TECHNICAL DATA

Module Series	POLYCRYSTALLINE			MONOCRYSTALLINE-PERC		
	BBS18F200	BBS24F215	BBS24F220	BBS24MF250	BBS24MF265	BBS24MF270
Electrical Characteristics at STC:						
Maximum Power Pmax (Wp)	200.00	215.00	220.00	250.00	265.00	270.00
Maximum Voltage Vmpp (V)	22.10	23.37	23.78	26.32	27.46	27.89
Maximum Current Imp (A)	9.05	9.20	9.25	9.50	9.65	9.68
Open Circuit Voltage Voc (V)	28.50	31.20	32.02	35.22	36.20	36.80
Short Circuit Current Isc (A)	9.55	9.70	9.83	10.06	10.17	10.22
Module Efficiency (%)	16.20	16.83	17.20	19.10	19.50	20.20

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:						
Maximum Power Pmax (Wp)	150.00	161.25	165.20	187.50	198.75	202.50
Maximum Voltage Vmpp (V)	19.89	21.03	21.41	23.68	24.72	25.10
Maximum Current Imp (A)	7.54	7.67	7.71	7.92	8.04	8.07
Open Circuit Voltage Voc (V)	26.70	29.23	30.00	33.00	33.92	34.48
Short Circuit Current Isc (A)	8.12	8.25	8.36	8.55	8.64	8.69

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)	-0.310%/°K	-0.300%/°K
Tc of Short Circuit Current (α)	0.050%/°K	0.060%/°K
Tc of Power (γ)	-0.410%/°K	-0.370%/°K
NOCT	46 ± 2°C	46 ± 2°C
Maximum series fuse ratings	15A	15A
Temperature Range	-40°C to +85°C	-40°C to +85°C
Maximum System Voltage	1000V DC	1000 V DC

Mechanical Data

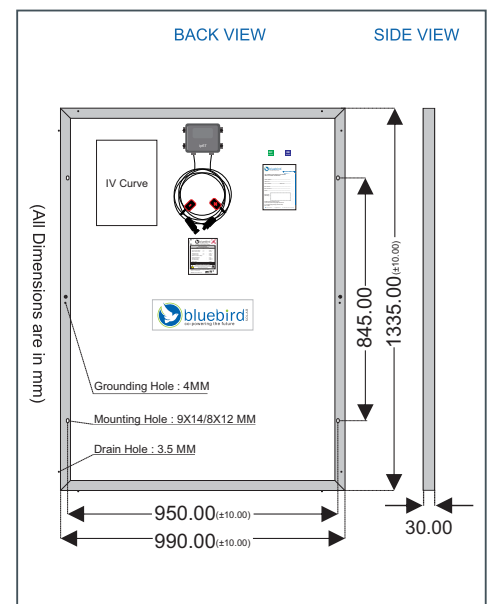
Dimension (LxWxH)	1335mm x 990mm x 30mm (± 10mm)
Solar Cells	Poly 42(7x6) / 48(8x6) Polycrystalline Solar cells, 5BB, (157 x 157mm) Mono 48(8x6) Mono PERC Solar cells, 5BB, (157 x 157mm / 159 x 159mm)
Weight	12.5 Kg
Junction Box	IP 67 rated with 3 bypass diodes
Cables & Connectors	4 sq. m solar cable 1000mm, 2 Nos. black MC4 connectors
Superstrate	3.2 mm high transmission low iron tempered glass (AR coated/Non coated)
Cell Encapsulant	PID Free EVA (Ethylene Vinyl Acetate) - FC/UFC
Backsheet	Composite Film - White (Black & Transparent optional)**
Frame	Silver Anodized Aluminum frame with twin wall profile
Application Class	Class A (safety class II)
Mechanical Load Test	Sustain heavy static load (2400 Pa & 5400 Pa or 550 kg/m ²)

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

**Black and transparent backsheet without ICE certification

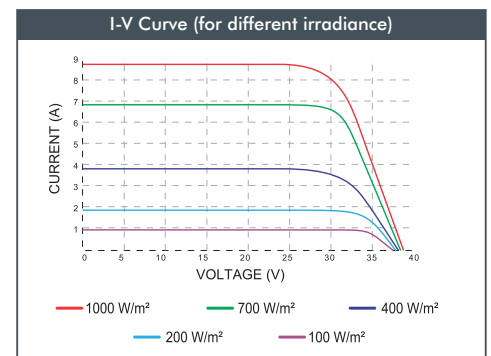
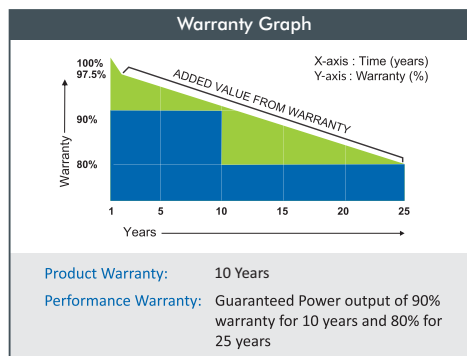
Specification and electrical data included in this datasheet are subject to change without notice. Please confirm your requirements with the company representative while placing your order.

Note: It is mandatory to make negative grounding of modules in all installation to avoid PID Issue.



Approvals and certifications	
Products:	IEC 61215 Ed 2, ROHS, IEC 61730 IEC 61701, CE, UL 1703, CEC, CE
Manufacturing:	ISO 9001:2015, ISO 14001:2015 ISO 45001:2018

Packaging Information		
Container	20'GP	40'GP
Pallets/Container	10	24
Pieces/Container	360	840



CORPORATE OFFICE

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

WORKS

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