

Premium Quality

# Solar PV Modules

**72**  
Cells

Polycrystalline Solar PV Modules 330-340 W  
Mono PERC Solar PV Modules 395-410 W



**bluebird** SOLAR  
co-powering the future



Increased module power output.



Maximum system voltage of 1500 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.

 **15MW+**  
Installations

 **5MW+**  
Under Execution

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

 **60MW+**  
PV Module Sales

**ALMM**  
APPROVED



**IEC**

**TECEE**

**UL** US  
LISTED

**CE**

**ISO**  
ISO 9001:2015

**ISO**  
ISO 14001:2015

**ISO**  
ISO 45001:2018

**RoHS**



**एन एस आई सी**  
**NSIC**  
ISO 9001 : 2008



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# TECHNICAL DATA



Module Series	POLYCRYSTALLINE			MONOCRYSTALLINE-PERC			
	BBS24F330	BBS24F335	BBS24F340	BBS24MF395	BBS24MF400	BBS24MF405	BBS24MF410
<b>Electrical Characteristics at STC:</b>							
Maximum Power Pmax (Wp)	330.00	335.00	340.00	395.00	400.00	405.00	410.00
Maximum Voltage Vmpp (V)	38.45	38.52	38.58	40.72	41.10	41.49	41.88
Maximum Current Imp (A)	8.58	8.70	8.82	9.70	9.73	9.76	9.79
Open Circuit Voltage Voc (V)	46.01	46.08	46.15	50.03	50.49	50.97	51.44
Short Circuit Current Isc (A)	9.44	9.57	9.70	9.95	9.98	10.01	10.04
Module Efficiency (%)	17.00	17.20	17.40	19.90	20.15	20.40	20.65

STC:1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3  
Average relative efficiency reduction of <5% for every 200W/m<sup>2</sup> reduction in Irradiance, according to EN 60904-1

<b>Electrical Characteristics at NOCT:</b>							
Maximum Power Pmax (Wp)	245.41	249.34	252.71	296.25	300.00	303.75	307.50
Maximum Voltage Vmpp (V)	34.63	34.91	35.10	36.65	36.98	37.34	37.69
Maximum Current Imp (A)	7.09	7.14	7.20	8.09	8.11	8.13	8.16
Open Circuit Voltage Voc (V)	43.18	43.46	43.70	47.03	47.46	47.91	48.35
Short Circuit Current Isc (A)	7.35	7.47	7.60	7.76	7.78	7.80	7.83

NOCT:800W/m<sup>2</sup> irradiance, 20°C ambient temperature, Wind Speed 1m/sec

<b>Temperature coefficient (Tc) and permissible operating conditions</b>							
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	30A			30A			
Temperature Range	-40°C to +85°C			-40°C to +85°C			
Maximum System Voltage	1000/1500 V DC			1000/1500 V DC			

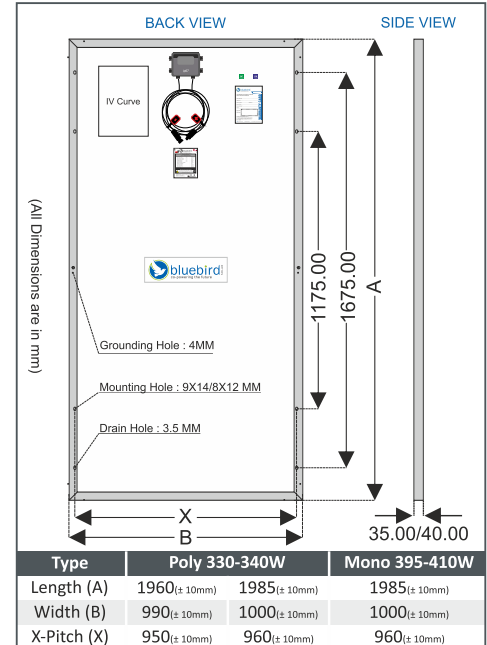
Mechanical Data		
Dimension (LxWxH)	Poly	1960x990mm/1985x1000mm x 35/40mm (± 10mm)
	Mono	1985mm x 1000mm x 35/40mm (± 10mm)
Solar Cells (PID Free)	Poly	72(12x6) Polycrystalline Solar cells, 5BB (157 x 157mm / 159x159mm)
	Mono	72(12x6) Mono PERC Solar cells, 5BB (159x159mm)
Weight	20.5 Kg	
Junction Box	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 <sup>2</sup> )	

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

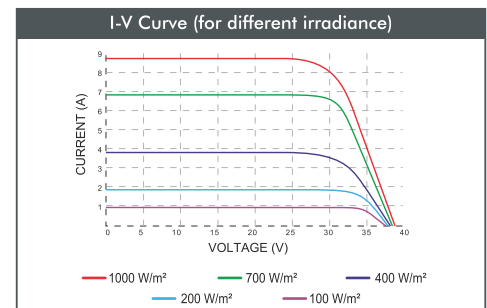
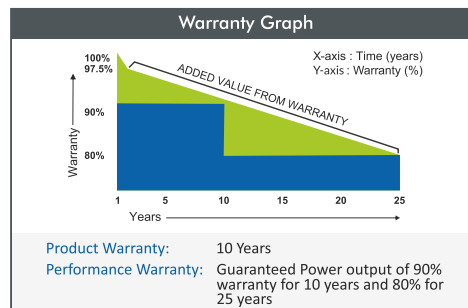
\*\*Black and transparent backsheet without ICE certification.

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:	BIS, IEC 61215 Ed 2, ROHS, IEC 61730 IEC 61701, CE, UL 1703, CEC, CE	
Manufacturing:	ALMM, ISO 9001:2015, ISO 14001: 2015 ISO 45001:2018	
Packaging Information		
Container	20'GP	40'GP
Pallets/Container	10	24
Pieces/Container	300	720



## CORPORATE OFFICE

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

## WORKS

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