

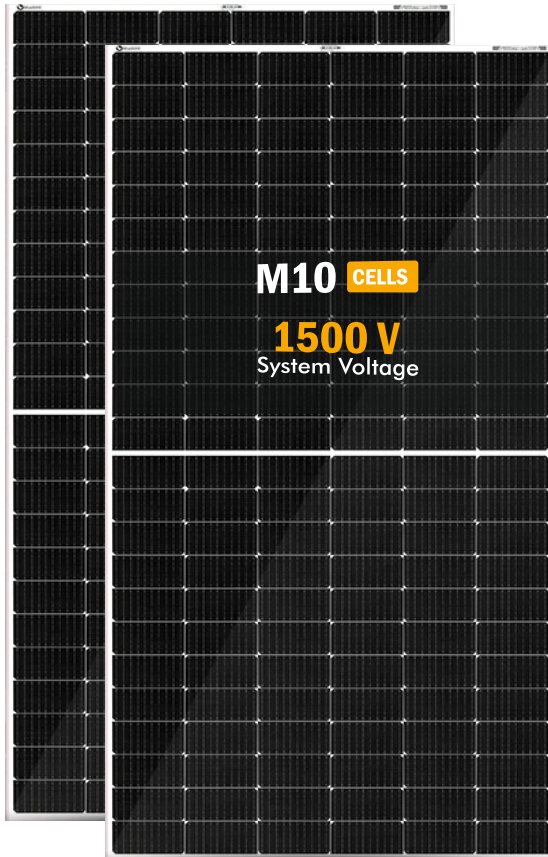
132
Cells

500Wp Mono-Facial PV Module

10BB | M10 Half-Cut Solar Cells



bluebird SOLAR
co-powering the future



Also Available with DCR content



M10 132
Half Cut
Cells



IP68
Rated Split
Junction box



Upto 20.25%
Module
Efficiency



0~+ 5wp
+VE Power
Tolerance



Superior module efficiency and better field reliability



Cylindrical tabbing wires to reduce the shadow on cell active area.



M10 sized solar cell for lower LCOE & Better ROI.



MBB technology for reduced internal cell resistance & increased power output.



Excellent anti-micro cracking performance and increased tolerance to hotspots



Better Temperature coefficients giving higher power generation under higher ambient temperature conditions



Certified to withstand Heavy snow load up to 5400 Pa & wind load up to 2400 Pa*

Why Bluebird ?

- ◆ Part of a 40+ years old reputed brand
- ◆ Widest range of PV modules
- ◆ Intensive R&D and 34 In house QCs
- ◆ Best in class BOM sourced from top suppliers
- ◆ First In industry 30 years warranty
- ◆ Robust supply chain & logistics
- ◆ Pre and post lamination EL testing

More Reliable Products

- | 2X EL Tested for 0% Micro-cracks
- | PID Resistant M10 cells & encapsulants.
- | AR Coated tempered PV grade glass.
- | Excellent low light performance.
- | Salt mist & ammonia resistant.



**On Grid Large
Scale Utility
System**



**Industrial &
Commercial
Rooftop Systems**



**Residential
Rooftop
Systems**



**Solar Water
Pumps
(PM KUSUM)**

ALMM
APPROVED



IEC

UL US
LISTED

CE

ISO
ISO 9001:2015

ISO
ISO 14001:2015

ISO
ISO 45001:2018



एन एस आई सी
NSIC
ISO 9001 : 2008



☎ 011-47052209

🌐 www.bluebirdsolar.com

✉ info@bluebirdsolar.in

TECHNICAL DATA

Module Series	BBS24MC500
ELECTRICAL CHARACTERISTICS (STC)	
Maximum Power Pmax (Wp)	500
Maximum Voltage Vmpp (V)	38.38
Maximum Current Impp (A)	13.03
Open Circuit Voltage Voc (V)	45.4
Short Circuit Current Isc (A)	13.9
Module Efficiency (%)	20.25
Fill Factor %	79.25

*STC Irradiance 1000W/m2, Module Temperature 25°C and AM 1.5

*No Negative Power Tolerance in Nominal Power

ELECTRICAL CHARACTERISTICS (NOCT)	
Maximum Power Pmax (Wp)	374.00
Maximum Voltage Vmpp (V)	35.68
Maximum Current Impp (A)	10.49
Open Circuit Voltage Voc (V)	42.45
Short Circuit Current Isc (A)	11.20

*NOCT-Irradiance 800 W/m2, AM 1.5, Ambient Temperature 20°C and Wind Speed 1m/s

*No Negative Power Tolerance in Nominal Power

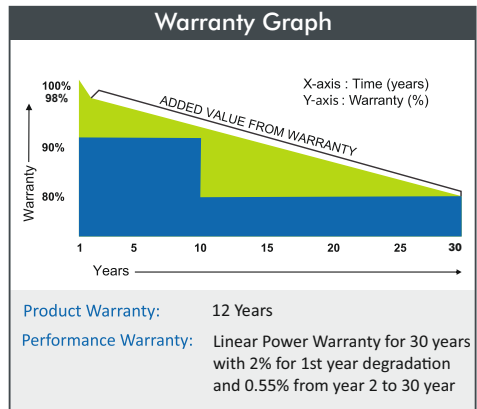
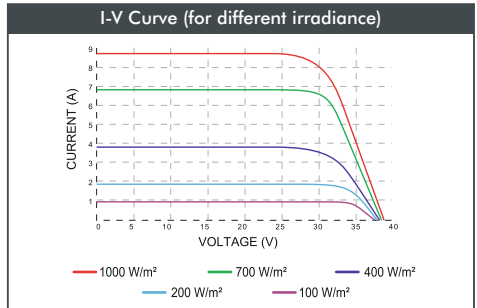
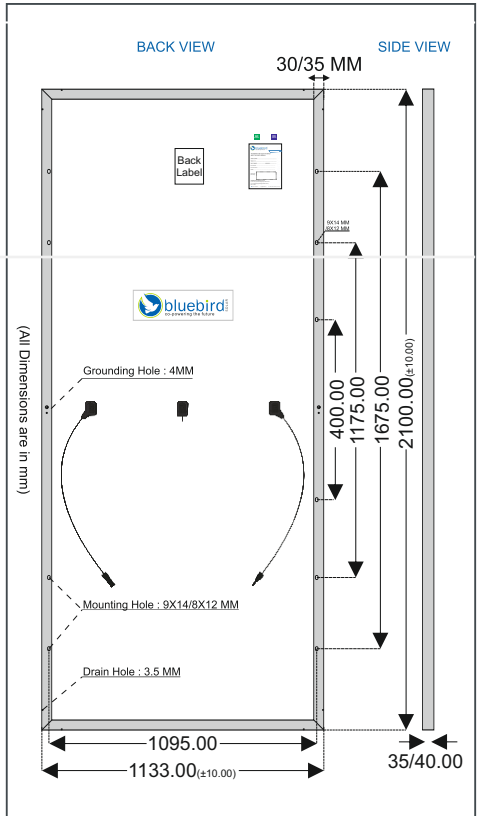
Temperature coefficient (Tc) and permissible operating conditions	
Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.050%/°C
Tc of Power (γ)	-0.35%/°C
NOCT	45 ± 2°C
Maximum series fuse ratings	25A
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC

Mechanical Data	
Dimension (LxWxH)	2100mm x 1133mm x 35mm
Weight	27 Kg
Solar Cells (PID Free)	132 (11 x 6 x 2), Mono Cut Cells, 10BB, (91 X182mm)
Junction Box	IP68, Split Junction Box with individual bypass diodes
Cables & Connectors	400 mm (+ve) and 400 mm (-ve) length cables, MC4 Compatible or MC4 Connectors
Superstrate	3.2 mm high transmission low iron tempered glass, AR 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)
Packaging	Standard 30 Modules per Pallet

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

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

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



Packaging Information			
Truck Type	Pallet/Truck	Modules/Truck	KW/Truck(Approx)
19 ft.	10	300	150
22 ft.	12	360	180
32 ft.	18	540	270
40 ft.	22	660	330
Container Type	Pallet/Truck	Module/Truck	KW/Truck(Approx)
40 HQ	22	660	330

Above quantities are subject to variation depending on miscellaneous factors. Trucks under consideration are all open body trucks. Customized packaging available.

CORPORATE OFFICE

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WORKS

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