



# LIMITED AND LINEAR WARRANTY FOR **PV MODULES**

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PRODUCT & PERFORMANCE WARRANTY

# 1. WARRANTED PRODUCTS

Model Code	Cell Technology	Wattage (in steps of 5W)	MODULE SIZE (L X W X H) +/- 10 mm
BBS24P672FXXX	Poly Crystalline	320-345	1960 x 990 x 35 1980 x 1000 x 35
BBS24M672FXXX	Mono Crystalline	400-415	1980 x 1000 x 35
BBS24M7108CXXX BBS24M7108CXXX-TB BBS24M7108CXXX-GG	Mono Crystalline TopCon	400-425 430-450	1735 x 1133 x 35
BBS24M7120CXXX- BBS24M7120CXXX-TB BBS24M7120CXXX-GG	Mono Crystalline TopCon	430-460 465-500	1920 x 1133 x 35
BBS24M7132CXXX- BBS24M7132CXXX-TB BBS24M7132CXXX-GG	Mono Crystalline TopCon	465-510 515-550	2100 x 1133 x 35
BBS24M7144CXXX- BBS24M7144CXXX-TB BBS24M7144CXXX-GG	Mono Crystalline TopCon	515-560 565-605	2278 x 1133 x 35
BBS24M8108CXXX BBS24M8108CXXX-TB BBS24M8108CXXX-GG	Mono Crystalline TopCon	495-555 560-600	1965 x 1303 x 35
BBS24M8120CXXX BBS24M8120CXXX-TB BBS24M8120CXXX-GG	Mono Crystalline TopCon	560-620 625-670	2175 x 1303 x 35
BBS24M8132CXXX BBS24M8132CXXX-TB BBS24M8132CXXX-GG	Mono Crystalline TopCon	625-680 685-735	2385 x 1303 x 35

## 2. LIMITED PRODUCT WARRANTY – REPAIR, REPLACEMENT OR REFUND

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Bluebird Solar warrants the customer that each module will be free from defects in materials and workmanship under normal application, installation, usage and service conditions for a period of:

- 12-year product warranty for models mentioned in Section 1, starting from the Warranty Start Date (as defined in Section 13 “Validity”). If any module fails to conform to the warranty in this Section 2, Bluebird Solar will, at its sole discretion, either
  - Repair or replace the module or
  - Refund the depreciated purchase price paid by the customer for the module as compensation.

Any deterioration in appearance of the product (including any scratches, stains, mechanical wear, rust, spots and aesthetic defects), or any other changes to the product that occur after delivery to the customer, do not constitute defects under this Limited Warranty. This type of change does not lead to deterioration in the operational capabilities of the module. Claims in the event of glass breakage shall only be enforceable to the extent that there was no external cause for the breakage. (i.e., only breakage caused by the glass itself or the module is covered). The foregoing remedies shall be Bluebird Solar’s sole and exclusive obligation, and the customer’s sole and exclusive remedy, for any module’s failure to conform to the Limited Product Warranty in this Section 2, and any repair or replacement shall not extend the warranty period set forth herein. The warranty in this Section 2 does not warrant a specific power output, which shall be exclusively covered in Section 3.A. of the Limited and Linear Warranty.

## 3.A.1. LINEAR POWER WARRANTY – 30 YEARS

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1. For M2, G1 Cells module: 97.5% in the first year, there after, for years two (2) through twenty-seven (27), 0.65% maximum decrease from module's nominal power output per year, ending with the 80.60% nominal power in the 27th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m<sup>2</sup> as stated in product datasheet after the defined warranty starting date. The Linear Performance Warranty table is attached in Sec on 14 of this Warranty Sheet.

2. For M10 cell and Glass-Back sheet module: 98% in the first year, there after, for years two (2) through thirty (30), 0.55% maximum decrease from module's nominal power output per year, ending with the 82.05% nominal power in the 27th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m<sup>2</sup> as stated in the product datasheet after the defined warranty starting date. The Linear Performance Warranty table is attached in Section 14 of this Warranty Sheet.

3. For M12 cell and Glass-Back sheet module: 98% in the first year, thereafter, for years two (2) through twenty (30), 0.55% maximum decrease from the module's nominal power output per year, ending with the 82.05% nominal power in the 27th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m<sup>2</sup> as stated in product datasheet after the defined warranty starting date. The Linear Performance Warranty table is attached in Section 14 of this Warranty Sheet

## 3.A.2. LINEAR POWER WARRANTY – 30 YEARS

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1. For M10 cell Glass-Glass module: 98% in the first year, there after, for years two (2) through thirty (30), 0.5% maximum decrease from module's nominal power output per year, ending with the 83.5% nominal Power in the 30th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m2 as stated in product datasheet, after the defined warranty starting date.
2. For M12 cell Glass-Glass module: 98% in the first year, thereafter, for years two (2) through thirty (30), 0.5% maximum decrease from module's nominal power output per year, ending with the 83.5% nominal Power in the 30th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m2 as stated in product data-sheet, after the defined warranty starting date.

## 3.A.3. LINEAR POWER WARRANTY – 30 YEARS

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1. For N-Type Topcon M10 cell Glass-Back sheet and Glass-Glass module: 99% in the first year, thereafter, for years two (2) through thirty (30), 0.45% maximum decrease from module's nominal power output per year, ending with the 85.95% nominal Power in the 30th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m2 as stated in product datasheet, after the defined warranty starting date.
2. For N-Type Topcon M12 cell Glass-Back sheet and Glass-Glass module: 99% in the first year, thereafter, for years two (2) through thirty (30), 0.5% maximum decrease from module's nominal power output per year, ending with the 85.95% nominal Power in the 30th year tested under STC conditions of 25°C, 1.5 AMG,1000 W/m2 as stated in product data-sheet, after the defined warranty starting date.

## 4. LIMITED REMEDY

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Bluebird Solar further warrants that if, within the period defined in clause 3. A above, after the Warranty Starting Date, any PV module exhibits a power output less than the nominal power performance for that PV module as specified by the original product label and the 'Warranted Power Performance Value' ('WPPV') is identified in Section 14, and if such a decrease in power below the WPPV is determined to be due to defects in materials or workmanship under normal application, use and service conditions, Bluebird Solar will remedy such decrease in power by, at its reasonable option, either (a) repair or replace the defective PV module to the Customer for replacement of modules or parts; (b) provide the Customer with additional PV module(s) to make up for such decrease in power so that the power output equals or exceeds the WPPV, provided, the Customer can mount such additional PV module(s) at his cost and expenses; or (c) refund the difference between the actual power output of the PV module and the WPPV, based on the current market price of a comparable PV module at the time of the customer's claim. For purposes of determining PV module power output, measurements shall be based on, or normalized to, standard test conditions of 1000 W/m<sup>2</sup> irradiance, 25°C cell temperature, and 1.5 AMG light spectrum. Measurements shall be made in accordance with IEC 60904, and shall account for measurement system error in accordance with EN 50380. The foregoing remedies shall be Bluebird Solar's sole obligation, and the customer's remedy, for any module's failure to conform to the warranty in Section 3, and any repair or replacement shall not extend the warranty period set forth herein.

## 5. EXCLUSIONS AND LIMITATIONS

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In addition to any other exclusions, limitations or conditions set forth in this Limited and Linear Warranty, the following exclusions and limitations apply hereto:

1. All warranty claims must be received within the applicable warranty period for this Limited and Linear Warranty to be effective.
2. This Limited and Linear Warranty does not apply to any module which, in Bluebird Solar's sole judgment, has been subjected to:
  - I. Failure to meet the agreed commercial terms with Bluebird Solar or its subsidiaries. In case that Bluebird Solar rejects the claim under this warranty based on this provision, the Buyer can deposit the amount not paid in order to trigger the warranty claims;
  - ii. Misuse, tampering, abuse, neglect or accident
  - iii. Improper transportation, storage or handling
  - iv. Alteration, improper installation or application
  - v. Removal and reinstallation at an alternate location
  - vi. Non-compliance with instructions in the installation manual • Exposure to voltage in excess to the maximum system voltage at the lowest temperature of the place or power surges
  - vii. Repair or modifications by someone other than an approved service technician of Bluebird Solar.
  - viii. Installation in direct contact with salt water, that is to say in offshore (e.g., platforms) and marine (e.g., piers, boats) applications, or contamination resulting from exceptional exposure to salt water or other chemicals
  - ix. Power failure surges, lightning, installation failure, flood, fire, natural disaster, accidental breakage, heavy snow loads, vandalism or other events outside Bluebird Solar's control
  - x. Negligence or wilful misconduct or other improper acts or omissions of the customer, its employees or agents, or other third parties

## 5. EXCLUSIONS AND LIMITATIONS

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3. The customer (and/or its Forwarding Company) shall be responsible for inspecting and accepting the modules delivered by Bluebird Solar. Any claim related and/or linked to damages in the packaging, such as impacts on pallets, will only be accepted by Bluebird Solar if these occur during delivery itself. In all other cases, damages should be claimed from the Forwarding Company or Insurance Company
4. Warranty Claims will not be honored if the serial number is altered, removed, or made illegible. The Serial number should remain free from tampering for the warranty to be honored.
5. Warranty Claims will not be honored in case of deviation from the standards specified in Bluebird Solar's Packing Loading & Unloading manual and Bluebird Solar's Installation manual respectively.

## 6. LIMITATION OF WARRANTY SCOPE

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### a. Disclaimer

This Limited and Linear Warranty is expressly in lieu of and excludes all other express or implied warranties, including but not limited to warranties of merchantability, title, non-infringement and fitness for particular purpose, use or application, and all other obligations or liability on the part of Bluebird Solar unless such other obligations or liabilities are expressly agreed to in writing, and signed and approved by Bluebird Solar

### b. Limitation of Liability

To the maximum extent permitted by the applicable laws, Bluebird Solar shall have no responsibility or liability whatsoever for damage or injury to persons or property, or for other loss or injury, resulting from any cause whatsoever arising out of or related to any module, including, without limitations, any defect in any module, or from use or installation of any module. To the maximum extent permitted by applicable law, under no circumstances shall Bluebird Solar be liable for



incidental, consequential or special damages, however caused, even if Bluebird Solar has been advised of or reasonably could have foreseen such damages. Loss of use, loss of profits, loss of production and loss of revenues are hereby specifically, and without limitation, excluded to the maximum extent permitted by applicable law. Notwithstanding anything contained elsewhere in this document, Bluebird Solar's aggregate liability, if any, for damages or otherwise, shall not exceed the amount paid by the customer for the module that gave rise to the warranty claim.

## 7. WARRANTY CLAIM SUBMISSION & VERIFICATION

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If the customer believes it has a justified claim covered by this Limited and Linear Warranty, and wishes to seek a remedy hereunder, the customer shall promptly contact the local Customer Service Manager, where applicable, submitting written notification by registered mail or by sending an email, who will then provide instructions and a claim form for filing the claim. Email should be sent to [info@bluebirdsolar.in](mailto:info@bluebirdsolar.in). Customer shall promptly provide contact information upon request. For the avoidance of doubt, e-mail alone shall not constitute valid notice pursuant to this Section 7.

If not applicable, the customer shall submit written notification directly to Bluebird Solar by mailing a registered letter to Bluebird Solar's address listed hereunder (Section 15) in order to receive instructions and the claim form for filing the claim.

Upon receipt of all the documentation required and specified in Bluebird Solar's claim form, Bluebird Solar may, at its sole and absolute discretion, seek further verification of the customer's claim such as the complete system details of the Plant and the operation and maintenance details of the plant. The return of any module will not be accepted unless prior written authorization has been given by Bluebird Solar & the customer has complied with the packaging & shipping instructions provided by Bluebird Solar.

## 8. SEVERABILITY

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If a part, provision or clause of this Limited and Linear Warranty, or the application thereof to any person or circumstance, is held invalid, void or unenforceable, such holding shall not affect the validity or enforceability of any other part, provision or clause of this limited Warranty or its applicability to any other person or circumstance, and to this end such other parts, provisions, clauses or applications of this Limited and Linear Warranty shall be treated as severable

## 9. TECHNICAL DISPUTES:

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In the event of any dispute between Bluebird Solar and the customer as to the validity of any claim made under this Warranty, an ISO 17025 accredited test laboratory recognized by Bluebird Solar at its sole and absolute discretion shall be called upon to judge the claim. Any measurements will be conducted in accordance with IEC 60904 standards and under Standard Test Conditions (STC as defined in Section 3.b). All fees and expenses associated with engaging such institutes shall be borne by the losing party. Nothing contained in this Section 9 shall preclude one party from bringing any legal suit, action or proceedings against the other party before the Courts of India.

## 10. MISCELLANEOUS:

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The customer may have specific legal rights outside this warranty, and may also have other rights that vary from jurisdiction to jurisdiction. This limited or linear warranty does not affect any additional rights the customer may have under mandatory rules of law in its jurisdiction. However, the overall liability of Bluebird Solar under this shall not be more than 100% of the total price paid for any individual module. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, as a result of which the limitations or exclusion in this Limited and Linear Warranty may not apply to the customer. In the event that Bluebird Solar replaces

any module under this Limited and Linear Warranty.

The replaced module shall become the property of Bluebird Solar and Bluebird Solar will deliver an exact nominal power module to match the string design of PV. If Bluebird Solar has discontinued production of that particular size PV module, Bluebird Solar will replace the same size and same Pmax module within 50 days from the complaint date.

## 11. WARRANTY TRANSFER

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This Limited and Linear Warranty is transferable to any subsequent owner of a module solely in circumstances in which that module remains installed in its original location. Any transferee is subject to all the exclusions, limitations and conditions set forth herein

## 12. FORCE MAJEURE

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Bluebird Solar will not be liable in any way to the customer or any 3rd party for any non-performance due to acts of God, earthquakes and other natural calamities, war, riots, strikes, warlike conditions, plague and other epidemics, fire, flood, or any other similar cause of or circumstances beyond the reasonable control of Bluebird Solar. In such cases the warranty will be null and void.

## 13. VALIDITY

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The start date of this Limited and Linear Warranty ("Warranty Start Date") shall be defined as the earlier of either:

- a. The sales invoice date; or
- b. One (1) year after the module was dispatched from Bluebird Solar's production facilities.

This Limited and Linear Warranty shall be valid until a revised version is issued by Bluebird Solar. Bluebird Solar reserves the right to revise the warranty conditions without any prior notification.

# 14. WARRANTED POWER PERFORMANCE TABLE

APPLICABLE FOR M2/G1 Glass to Back sheet Modules									
Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)
Year - 1	97.50	Year - 7	93.60	Year-13	89.70	Year-19	85.80	Year-25	81.90
Year - 2	96.85	Year - 8	92.95	Year-14	89.05	Year-20	85.15	Year-26	81.25
Year - 3	96.20	Year - 9	92.30	Year-15	88.40	Year-21	84.50	Year-27	80.60
Year - 4	95.55	Year - 10	91.65	Year-16	87.75	Year-22	83.85	Year-28	<b>79.75</b>
Year - 5	94.90	Year - 11	91.00	Year-17	87.10	Year-23	83.20	Year-29	<b>79.30</b>
Year - 6	94.25	Year - 12	90.35	Year-18	86.45	Year-24	82.55	Year-30	<b>78.65</b>

APPLICABLE FOR M10/M12 Glass to Back sheet Modules									
Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)
Year - 1	98.00	Year - 7	94.70	Year-13	91.40	Year-19	88.10	Year-25	84.80
Year - 2	97.45	Year - 8	94.15	Year-14	90.85	Year-20	87.55	Year-26	84.25
Year - 3	96.90	Year - 9	93.60	Year-15	90.30	Year-21	87.00	Year-27	83.70
Year - 4	96.35	Year - 10	93.05	Year-16	89.75	Year-22	86.45	Year-28	<b>83.15</b>
Year - 5	95.80	Year - 11	92.5	Year-17	89.20	Year-23	85.90	Year-29	<b>82.60</b>
Year - 6	95.25	Year - 12	91.95	Year-18	88.65	Year-24	85.35	Year-30	<b>82.05</b>

APPLICABLE FOR M10/M12 Glass to Glass Modules									
Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)
Year - 1	98.00	Year - 7	95.00	Year-13	92.00	Year-19	89.00	Year-25	86.00
Year - 2	97.50	Year - 8	94.50	Year-14	91.50	Year-20	88.50	Year-26	85.50
Year - 3	97.00	Year - 9	94.00	Year-15	91.00	Year-21	88.00	Year-27	85.00
Year - 4	96.50	Year - 10	93.50	Year-16	90.50	Year-22	87.50	Year-28	84.50
Year - 5	96.00	Year - 11	93.00	Year-17	90.00	Year-23	87.00	Year-29	84.00
Year - 6	95.50	Year - 12	92.50	Year-18	89.50	Year-24	86.50	Year-30	83.50

# 14. WARRANTED POWER PERFORMANCE TABLE

APPLICABLE FOR N-Type Topcon M10/M12 Glass-Back sheet and Glass-Glass Modules									
Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)	Year	WPPV (%)
Year - 1	99.00	Year - 7	96.30	Year-13	93.60	Year-19	90.90	Year-25	88.20
Year - 2	98.55	Year - 8	95.85	Year-14	93.15	Year-20	90.45	Year-26	87.75
Year - 3	98.10	Year - 9	95.40	Year-15	92.70	Year-21	90.00	Year-27	87.30
Year - 4	97.65	Year - 10	94.95	Year-16	92.25	Year-22	89.55	Year-28	86.85
Year - 5	97.20	Year - 11	94.50	Year-17	91.80	Year-23	89.10	Year-29	86.40
Year - 6	96.75	Year - 12	94.05	Year-18	91.35	Year-24	88.65	Year-30	85.95



## Head Office

### Bluebird Solar Pvt. Ltd.

Plot No. 70, First Floor, Rajasthani Udyog Nagar  
Industrial Area, GT Karnal Road, Delhi – 110033, India

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## Works

### Bluebird Solar Pvt. Ltd.

Plot No. 5, Ecotech-II,  
Udyog Vihar, Gautam Buddha Nagar,  
Greater Noida, Uttar Pradesh – 201306, India

