

SOLAR PANEL MONO-CRYSTALLINE

24V Series



Multiple Main Gate Technology

Better light utilization and current collection, effectively improve product power output and reliability.



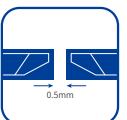
Lossless Cut

Advanced non-destructive cutting technology is applied to effectively reduce the risk of hidden cracks.



Better Heat Spot Resistance

By optimizing circuit design and working current, better temperature coefficient and heat spot resistance are obtained.



High Density Package

Improve component conversion efficiency by reducing the spacing between cells.



Anti-pid Guarantee

The attenuation rate caused by PID phenomenon is minimized through battery production technology optimization and material control.



Excellent Product Materials

Excellent product material and process quality assurance



Super Mechanical Load

It can carry 5400Pa snow load
It can bear 2400Pa wind pressure



Adaptability to Harsh Environments

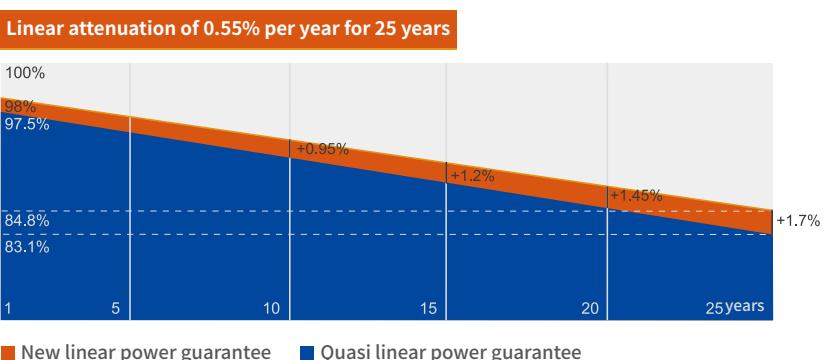
Third party certification through high salt spray and high ammonia corrosion test, suitable for high temperature and humidity, coastal, desert, lake and other harsh environment.

COMPREHENSIVE SYSTEM AND PRODUCT CERTIFICATION

IEC61215(2016),IEC61730(2016)
ISO 9001:2015 / ISO Quality Management System
ISO 14001:2015 / Environmental Management System
ISO 45001: 2018 / International Occupational Health and Safety Management System Certification

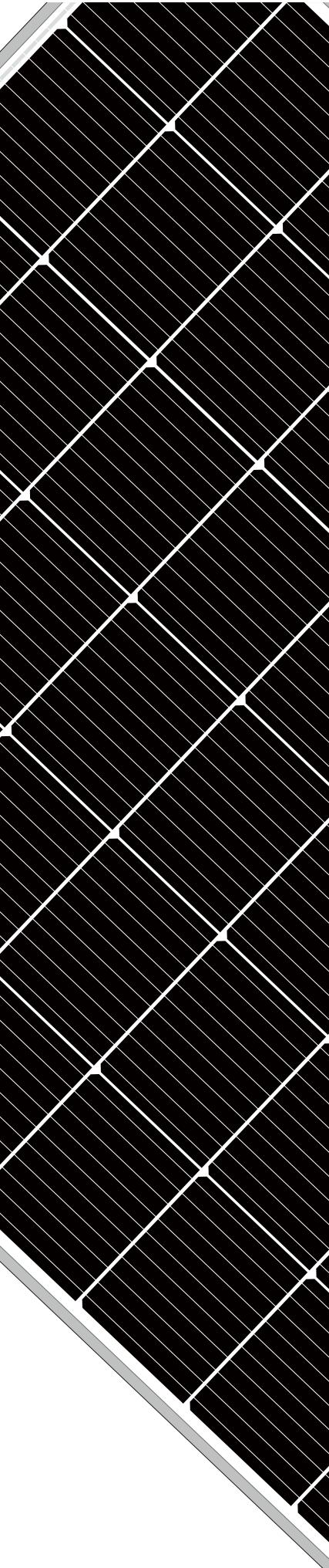


INDUSTRY-LEADING QUALITY ASSURANCE



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Blue Carbon, no need electricity bill at all.

Electrical Parameters

Solar Module Type	BCT170M-24	BCT180M-24	BCT190M-24	BCT200M-24	BCT210M-24	BCT220M-24	BCT230M-24	BCT240M-24	BCT250M-24	BCT260M-24	BCT270M-24	BCT280M-24	BCT290M-24	BCT300M-24	BCT300M-18	BCT310M-24	BCT320M-24	BCT330M-24	BCT340M-24	BCT350M-24	BCT360M-24	BCT370M-24	BCT380M-24	BCT390M-24	BCT400M-24	BCT410M-24	BCT420M-24	BCT430M-24	BCT440M-24
Maximum Power at STC (Pmax)[W]	170W	180W	190W	200W	210W	220W	230W	240W	250W	260W	270W	280W	290W	300W	300W	310W	320W	330W	340W	350W	360W	370W	380W	390W	400W	410W	420W	430W	440W
Optimum Operating Voltage (Vmp)[V]	42.1V	35.09V	42.1V																										
Optimum Operating Current (Imp)[A]	4.04A	4.28A	4.51A	4.75A	4.91A	5.23A	5.46A	5.7A	5.94A	6.17A	6.41A	6.65A	6.88A	7.13A	8.55A	7.36A	7.6A	7.84A	8.08A	7.6A	8.55A	8.79A	9.02A	9.26A	9.5A	9.74A	9.97A	10.21A	10.45A
Open-Circuit Voltage (Voc)[V]	48.96V	40.8V	48.96V																										
Short-Circuit Current (Isc)[A]	4.28A	4.65A	4.91A	5.17A	5.43A	5.69A	5.94A	6.2A	6.46A	6.72A	6.98A	7.24A	7.49A	7.76A	9.31A	8.01A	8.27A	8.53A	8.8A	8.27A	9.31A	9.57A	9.82A	10.08A	10.34A	10.6A	10.85A	11.11A	11.38A
Component Efficiency[%]	18.7%	19.8%	18.2%	19.2%	20.1%	18.7%	19.6%	20.4%	19.1%	19.8%	20.6%	19.3%	20%	20.7%	20.5%	19.3%	20%	20.6%	19.7%	20.2%	20.8%	19.3%	19.8%	20.4%	20.9%	20%	20.5%	21%	21.5%

Temperature Coefficient (Pmax)

-0.34%/°C

Temperature Coefficient (Voc)

-0.27%/°C

Temperature Coefficient (Tsc)

+0.045%/°C

NOCT

45±2°C

Maximum System Voltage

1000V DC

Power Tolerance

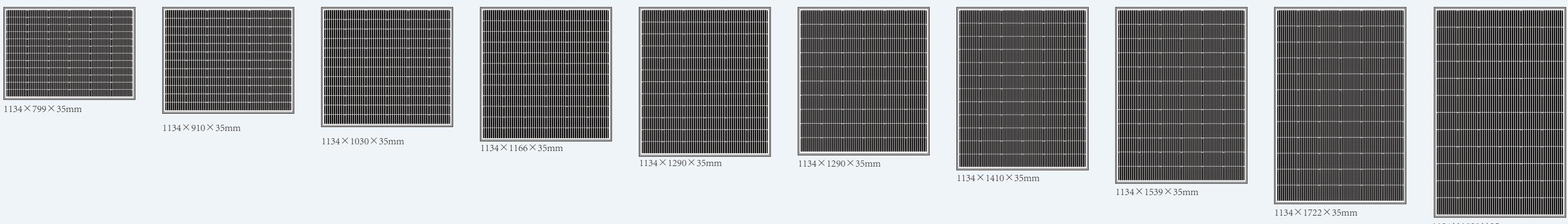
±3%

* Standard test conditions (STC) : irradiance 1000W/m², battery temperature 25°C, AM1.5, power tolerance: ±3%

Specification

Solar Module Type	BCT170M-24	BCT180M-24	BCT190M-24	BCT200M-24	BCT210M-24	BCT220M-24	BCT230M-24	BCT240M-24	BCT250M-24	BCT260M-24	BCT270M-24	BCT280M-24	BCT290M-24	BCT300M-24	BCT300M-18	BCT310M-24	BCT320M-24	BCT330M-24	BCT340M-24	BCT350M-24	BCT360M-24	BCT370M-24	BCT380M-24	BCT390M-24	BCT400M-24	BCT410M-24	BCT420M-24	BCT430M-24	BCT440M-24
Component Size	799×1134×35mm	910×1134×35mm	1030×1134×35mm	1166×1134×35mm		1290×1134×35mm			1410×1134×35mm		1539×1134×35mm		1722×1134×30mm			1830×1134×30mm													
Number of Cells	72	72	72	72		72	60		72		72					72												72	
Cells Arrangement	12×6	12×6	12×6	12×6		12×6	10×6		12×6		12×6					12×6												12×6	
Component Weight	10.02kg	11.4kg	12.9kg	14.26kg		16.2kg			18.35kg		15.35kg					21.6kg												23.1kg	
Package size	815×1150×90mm/2pcs	925×1150×90mm/2pcs	1045×1150×90mm/2pcs	1181×1150×90mm/2pcs		1305×1150×90mm/2pcs			1425×1150×90mm/2pcs		1554×1150×90mm/2pcs		1737×1150×90mm/2pcs			1845×1150×90mm/2pcs													

Engineering Drawings



* 12-year quality assurance; 25-year linear output power guarantee.

* With the technical progress and product update, the technical parameters of the components of Blue Carbon may differ from the technical parameters contained in this specification. Blue Carbon has the right to adjust the technical parameters at any time without notifying the customer, and the final interpretation of the technical specification belongs to Blue Carbon.