PRODUCT CHARACTERISTICS



Multiple Main Gate Technology

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



Better Heat Spot Resistance

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



Anti-pid Guarantee

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



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



Super Mechanical Load

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



Excellent Product Materials

Excellent product material and process quality assurance



Linear Power Warranty

Linear attenuation of 0.55% per year for 25 years



±3% Positive Tolerance

±3% Positive Tolerance

550W

SOLAR PANEL MONO-CRYSTALLINE



COMPREHENSIVE SYSTEM AND PRODUCT CERTIFICATION





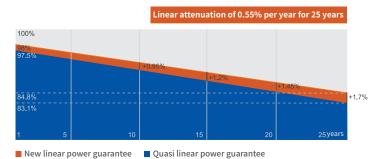


IEC61215(2016),IEC61730(2016)



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



BLUE CARBON TECHNOLOGY INC





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https://www.bluecarbontech.com.cn/en/https://bluecarbon.solar

Office Location

Building A, International Fortune Center, Rizhao City, Shandong Province, China

Blue Carbon

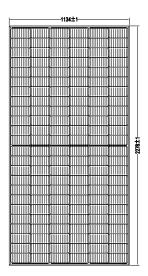
Electrical Parameters Under STC		
Solar Module Type: BCT-10M-144-550W		
Maximum Power at STC (Pmax) [W]	550	
Open-Circuit Voltage (Voc) [V]	49.68	
Optimum Operating Voltage (Vmp) [V]	44.14	
Short-Circuit Current (Isc) [A]	13.50	
Optimum Operating Current (Imp) [A]	12.46	
Wafer Efficiency [%]	23.3	
$Standard\ test\ conditions\ (STC): irradiance\ 1000W/m^2, battery\ temperature\ 25^\circ C, AM1.5, power\ tolerance:\ \pm 3\%$		

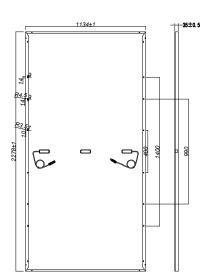
Mechanical Parameter		
Cell type	MONO-CRYSTALLINE	
Number of Cells	144(12×6×2)	
Component Size	2278±1mm×1134±1mm×35±0.5mm	
Component Weight	27.2kg	
Front Glass 3.2mm	high permeability, anti-reflection coating tempered glass	
Backboard	White	
Component Frame	Anodized aluminium alloy	
Junction Box	IP68,3 diodes	
Connector	PV-XT1609Nxyz	
Cable Cross-Sectional	Area 4mm²(62930 IEC 131)	
Cable Length	300mm	
Wind Pressure/Snow P	ressure 2400Pa/5400Pa	
Packaging Information	31 pcs/pallet, 2pcs/set; 620pcs/40HQ, 510pcs/40GP, 260pcs/20GP	

Electrical Property Parameter		
Working Temperature	-40°C~+85°C	
Maximum System Voltage	1500V DC	
Maximum Fuse Rated Current	30A	
Power Tolerance	±3%	

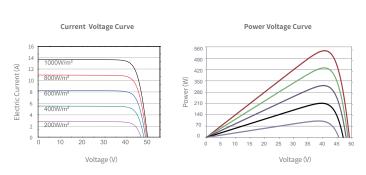
Temperature Characteristic	
Temperature Coefficient (Pmax)	-0.34%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C
Nominal Operating Temperature (NOTC)	45±2°C

Engineering Drawings





Characteristic Curve



- * 25-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.

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