PRODUCT CHARACTERISTICS

SOLAR PANEL MONO-CRYSTALLINE



Multiple Main Gate Technology

Better light utilization and current collection,



Better Heat Spot Resistance

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



Anti-pid Guarantee

minimized through battery production technology



Adaptability to Harsh Environments

Third party certification through high salt spray and high ammonia corrosion test, suitable for high temperature and



Super Mechanical Load



Excellent Product Materials



Linear Power Warranty



±3% Positive Tolerance



550W

COMPREHENSIVE SYSTEM AND PRODUCT CERTIFICATION







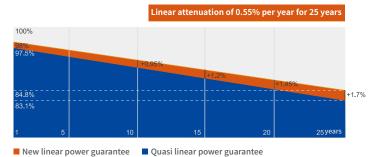
ISO 9001:2015 / ISO Quality Management System

IEC61215(2016),IEC61730(2016)



ISO 14001:2015 / Environmental Management System ISO 45001: 2018 / International Occupational Health and Safety Management System Certification

INDUSTRY-LEADING QUALITY ASSURANCE





Electrical Parameters Under STC

Solar Module Type: BCT-10M-144-550WMaximum Power at STC (Pmax) [W]550Open-Circuit Voltage (Voc) [V]50.10Optimum Operating Voltage (Vmp) [V]42.10Short-Circuit Current (Isc) [A]13.95Optimum Operating Current (Imp) [A]13.07Component Efficiency [%]21.5

 $Standard\ test\ conditions\ (STC): irradiance\ 1000W/m^2,\ battery\ temperature\ 25^\circ\text{C},\ AM1.5,\ power\ tolerance:\ \pm3\%$

Electrical Parameters Under NMOT

Maximum Power at STC (Pmax) [W]	416.2
Open-Circuit Voltage (Voc) [V]	47.40
Optimum Operating Voltage (Vmp) [V]	39.55
Short-Circuit Current (Isc) [A]	10.97
Optimum Operating Current (Imp) [A]	10.52

Component nominal operating temperature (NMOT): irradiance =800W/m², ambient temperature =20°C, wind speed: 1m/s

Mechanical Parameter

Cell type	MONO-CRYSTALLINE
Number of Cells	144(12×6×2)
Component Size	2278 ± 1 mm $\times1134\pm1$ mm $\times35\pm0.5$ mm
Component Weigh	27.2kg
Front Glass 3.2	mm high permeability, anti-reflection coating tempered glass
Backboard	White
Component Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes
Connector	PV-XT1609Nxyz
Cable Cross-Section	nal Area 4mm²(62930 IEC 131)
Cable Length	300mm
Wind Pressure/Sno	w Pressure 2400Pa/5400Pa

Electrical Property Parameter

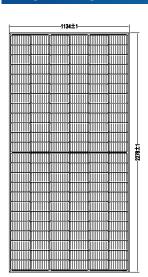
Working Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A
Power Tolerance	±3%

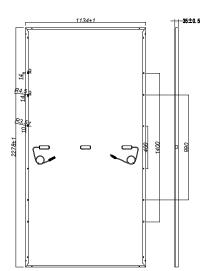
Temperature Characteristic

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

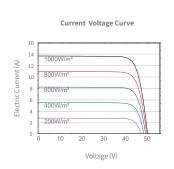
Packaging Information

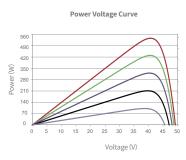




31 pcs/pallet

Characteristic Curve





- * 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.