



RENEWABLE SOLAR & STORAGE SOLUTIONS

BC component supplier

TOGETHER
GO
BEYOND

2026 V1.0

Xiamen C&D Inc.

Xiamen C&D Inc. (Stock Code: 600153. SH), a mega professional supply chain operator and core member of C&D Crop., Ltd. is one of the world's Fortune 500 companies. The company was found in 1980 and listed on the SSE in June 1998. The company's supply chain business focus on 7 major sectors including steel and iron, pulp and paper, agricultural products, consumer goods, minerals, energy and chemical, emerging business.

700 billion CNY

Annual operating revenue exceeds 700 billion CNY

800 billion CNY

Total asset exceeds around 800 billion CNY

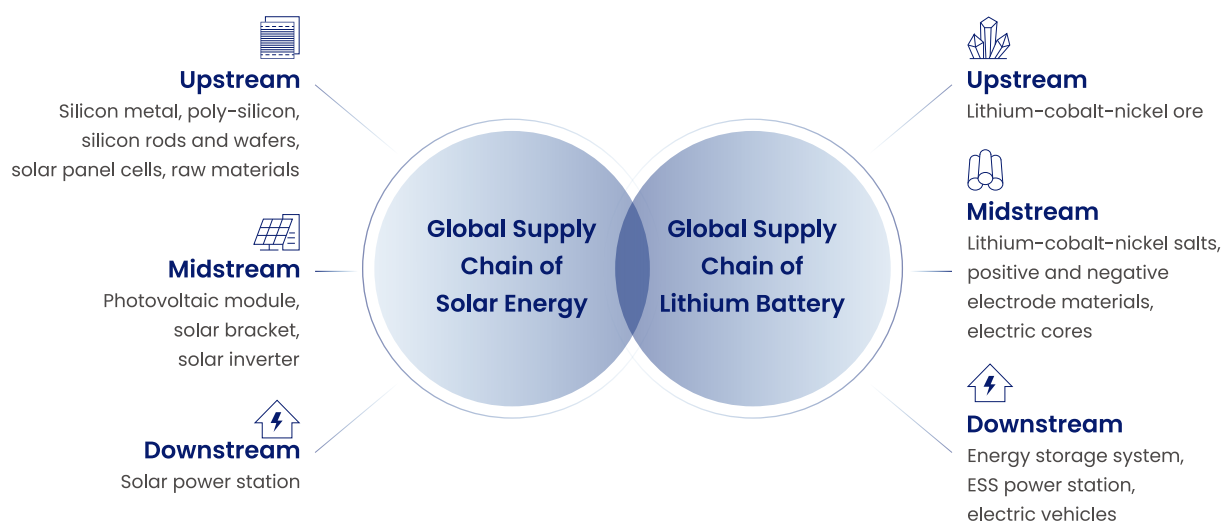
NO.98

Ranked 98th on the Fortune Global 500 list

* Data Source: C&D Corp., Ltd. 2024 Data

C&D Emerging Energy

C&D Emerging Energy is a wholly-owned subsidiary of Xiamen C&D Inc., the intention of establishment is to enlarge the supply chain operation business in renewable energy industry, and focus on two core renewable energy industries, PV and Li-ion. Also, it is committed to become a top comprehensive supply chain service operator in the industry.



15

**15-year Warranty for
Materials and Processing**

30

**30-year Warranty for Extra
Linear Power Output**



24.8%

Highest component
efficiency

0~3%

Power
tolerance

≤1%

First year power
attenuation

≤0.35%

2-Annual power
attenuation for 2-30 years

BC-CELL

Lower operating
Temperature

Trust in CD's long-term and stable quality

- World class manufacturer of crystalline silicon photovoltaic modules
- Fully automated production line and leading photovoltaic technology
- Through various long-term reliability tests
- EL testing is conducted before and after lamination to effectively ensure the reliability of the components
- Adopting strict international standard management systems ISO9001, ISO 14001, and ISO 45001
- Through various rigorous environmental tests (salt spray, ammonia water, and sandstorm corrosion tests IEC61701, IEC62716, DIN EN 60068-2-68)



Suitable for industrial and
commercial, household
distributed, and large-scale
ground power stations



Non destructive cutting,
straight welding, reducing
the risk of hidden cracks in
battery cells



Adapt to harsh outdoor
environments through weather
resistance tests such as dust,
salt spray, ammonia, etc



N-type BC components have
superior reliability, lower tempera-
ture coefficient, and excellent
performance such as heat spot
resistance



Selected packaging materials
and strict process schemes
ensure the anti PID capability
of components



Large sized silicon wafers and
high-power components can
reduce costs such as brackets,
combiner boxes, cables, and land
This will dilute the cost of a single
watt system

CD-G640-670 MCH72Dw 2382 Series+

Tolerance

L: ±2mm

W: ±2mm

Unit: mm

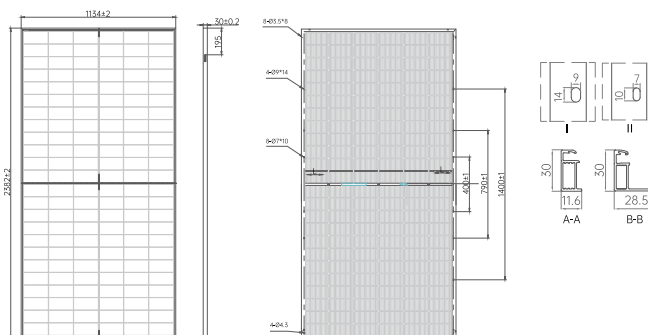
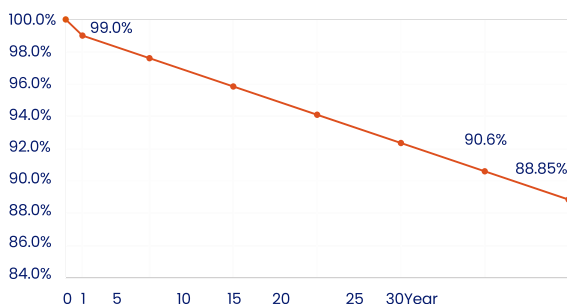
640-670W

N-TYPE-BC (double glass series) COMPONENTS

01

30-year Linear Performance Warranty

Guaranteed Module Performance



Electrical Characteristics (STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s)

Power Tolerance: 0~+3%

Module Type	640		645		650		655		660		665		670	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	640	485	645	489	650	493	655	496	660	500	665	501	670	505
V _{oc} [V]	53.80	51.04	53.90	51.14	54.00	51.23	54.10	51.33	54.20	51.42	54.3	51.66	54.4	51.75
V _{mp} [V]	45.10	42.79	45.20	42.88	45.30	42.98	45.40	43.07	45.50	43.17	45.4	42.87	45.50	42.92
I _{sc} [A]	14.94	12.07	15.00	12.12	15.06	12.70	15.12	12.22	15.18	12.27	15.24	12.37	15.32	12.42
I _{mp} [A]	14.20	11.35	14.27	11.41	14.35	11.48	14.43	11.54	14.51	11.60	14.65	11.69	14.73	11.76
Module Efficiency	23.7%		23.9%		24.1%		24.2%		24.4%		24.6%		24.8%	

Product Specification

Bifacial Factor	70±5%
Cell Type	N-Type BC
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	32.3kg±3%
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet / 144pcs per 20'GP / 720pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/°C
Temperature Coefficient of V _{oc}	- 0.22%/°C
Temperature Coefficient of P _{max}	- 0.26%/°C

Installation Guide

Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23m/s
Fire Rating	IEC Class A

CD-G645-670 MCH72Mw/2382 Series+

Tolerance

L: ±2mm

W: ±2mm

Unit: mm

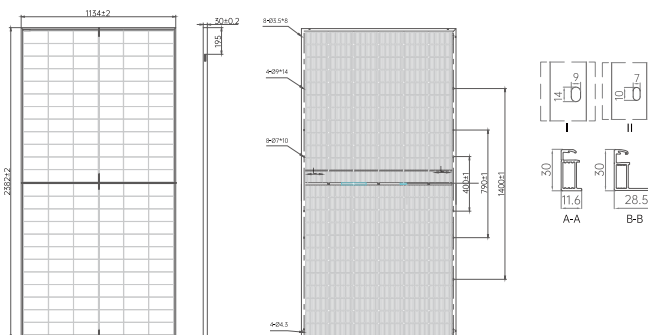
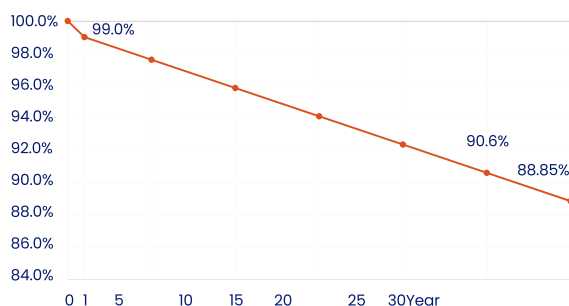
645-670W

N-TYPE-BC (single glass series) COMPONENTS

02

30-year Linear Performance Warranty

Guaranteed Module Performance



Electrical Characteristics (STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s)

Power Tolerance: 0~+3%

Module Type	645		650		655		660		665		670	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	645	489	650	493	655	496	660	500	665	501	670	505
V _{oc} [V]	53.90	51.14	54.00	51.23	54.10	51.33	54.20	51.42	54.3	51.66	54.4	51.75
V _{mp} [V]	45.20	42.88	45.30	42.98	45.40	43.07	45.50	43.17	45.4	42.87	45.50	42.92
I _{sc} [A]	15.00	12.12	15.06	12.70	15.12	12.22	15.18	12.27	15.24	12.37	15.32	12.42
I _{mp} [A]	14.27	11.41	14.35	11.48	14.43	11.54	14.51	11.60	14.65	11.69	14.73	11.76
Module Efficiency	23.9%		24.1%		24.2%		24.4%		24.6%		24.8%	

Product Specification

Cell Type	N-Type BC
Glass	3.2mm tempered glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	32.3kg±3%
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet / 144pcs per 20'GP / 720pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/°C
Temperature Coefficient of V _{oc}	- 0.22%/°C
Temperature Coefficient of P _{max}	- 0.26%/°C

Installation Guide

Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23m/s
Fire Rating	IEC Class A

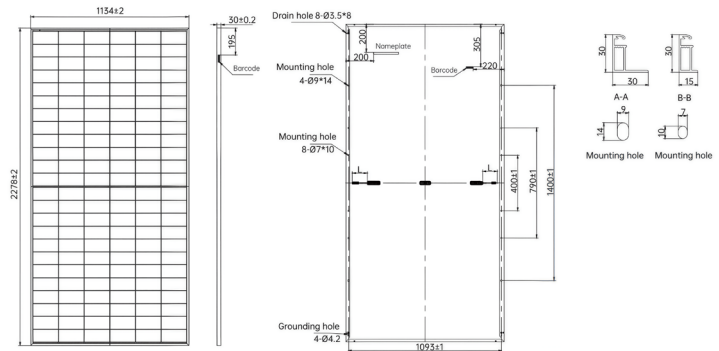
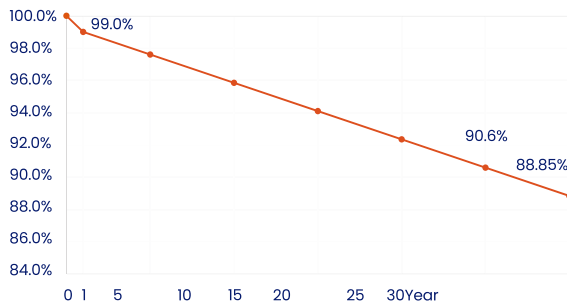
CD-A595-625 MAH72Dw 2278 Series+

Tolerance
L: ±2mm
W: ±2mm
Unit: mm

595-625W
N-TYPE-BC (double glass series) COMPONENTS

03

30-year Linear Performance Warranty Guaranteed Module Performance



Electrical Characteristics (STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s)

Power Tolerance: 0~+3%

Module Type	595		600		605		610		615		620		625	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	595	448	600	452	605	456	610	459	615	463	620	467	625	471
V _{oc} [V]	53.98	50.97	54.11	51.09	54.23	51.21	54.34	51.32	54.44	51.41	54.57	51.53	54.70	51.66
V _{mp} [V]	44.7	42.23	44.8	42.32	44.9	42.41	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78
I _{sc} [A]	14.06	11.35	14.14	11.43	14.22	11.50	14.30	11.57	14.38	11.63	14.46	11.70	14.54	11.76
I _{mp} [A]	13.32	10.61	13.40	10.68	13.48	10.75	13.56	10.82	13.64	10.89	13.72	10.95	13.80	11.01
Module Efficiency	23.0%		23.2%		23.4%		23.6%		23.8%		24.0%		24.2%	

Product Specification

Bifacial Factor	70±5%
Cell Type	N-Type BC
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) +400mm, ~200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	27.1kg±3%
Dimension	2278*1134*30mm
Package Detail	36pcs per pallet / 144pcs per 20'GP / 720pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/°C
Temperature Coefficient of V _{oc}	- 0.22%/°C
Temperature Coefficient of P _{max}	- 0.26%/°C

Installation Guide

Operation Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23m/s
Fire Rating	IEC Class A

CD-A600-630 MAH72Mw 2278 Series+

Tolerance

L: ±2mm

W: ±2mm

Unit: mm

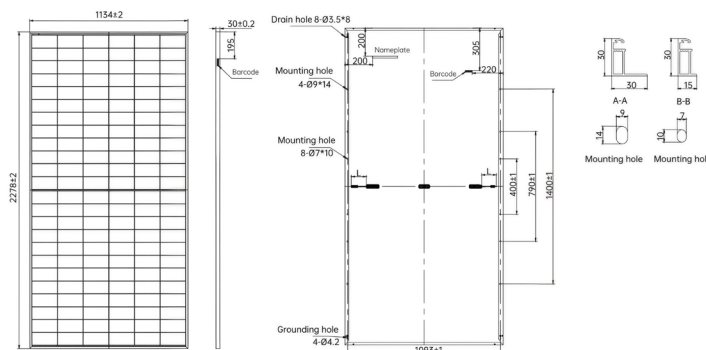
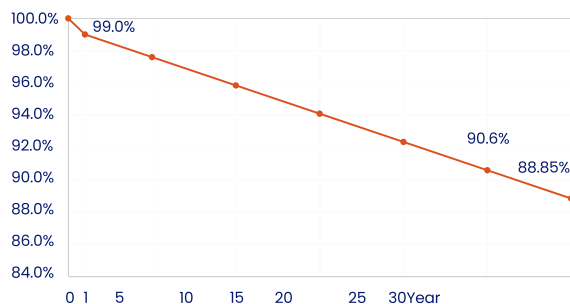
600-630W

N-TYPE-BC (single glass series) COMPONENTS

04

30-year Linear Performance Warranty

Guaranteed Module Performance



Electrical Characteristics (STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s)

Power Tolerance: 0~+3%

Module Type	600		605		610		615		620		625		630	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	600	452	605	456	610	459	615	463	620	467	625	471	630	477
V _{oc} [V]	54.11	51.09	54.23	51.21	54.34	51.32	54.44	51.41	54.57	51.53	54.70	51.66	53.6	50.85
V _{mp} [V]	44.8	42.32	44.9	42.41	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78	44.9	42.6
I _{sc} [A]	14.14	11.43	14.22	11.50	14.30	11.57	14.38	11.63	14.46	11.70	14.54	11.76	14.82	11.98
I _{mp} [A]	13.40	10.68	13.48	10.75	13.56	10.82	13.64	10.89	13.72	10.95	13.80	11.01	14.04	11.22
Module Efficiency	23.2%		23.4%		23.6%		23.8%		24.0%		24.2%		24.3%	

Product Specification

Cell Type	N-Type BC
Glass	3.2mm tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	27.1kg±3%
Dimension	2278*1134*30mm
Package Detail	36pcs per pallet / 144pcs per 20'GP / 720pcs per 40'HC

Temperature Ratings (STC)

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Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23m/s
Fire Rating	IEC Class A

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C&D EMERGING ENERGY, Lift the Value!

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