



Q-SUN solar

BC Series

Mono-Crystalline 645~665W

0~+5W POWER TOLERANCE

High efficiency N - type Double glass solar module ●

Partial Shading Optimisation ●

Industry Leading High Yield ●

Micro-crack Resistance ●

More Aesthetic Values ●

Excellent Anti-LID & Anti-PID Performance ●

10 years material warranty 

30 years power linear warranty 

144

HALF-CUT
CELLS

182
x 192.5
mm

SQUARE
CELLS

Comprehensive quality management system
and product certification



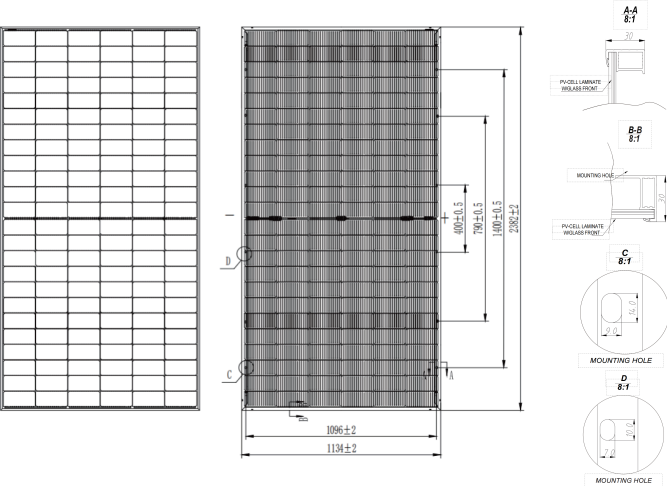
IEC61215/IEC61730
ISO 9001: 2015 Quality Management System
ISO14001: 2015 Environment Management System
ISO 45001: 2018 Occupational Health and Safety Management Systems

24.6%
EFFICIENCY

665W
OUTPUT

80%
AT THE END OF 30 YEAR

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Packing Standard

Container capacity(40HQ)
40HQ: 36pcs/pallet, 20pallets/ctn, 720pcs/ctn

Product Specification

Cell Type	N-Type TBC
No. of Cells	144(6*24)
Dimension	2382*1134*30mm
Weight	32.3kg±3%
Front Glass	2.0mm coated semi tempered glass
Back Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/MC4 Original
Cable	4mm²(IEC) 12AWG(UL) +400mm,-200mm/±1400mm/customizable

Electrical Parameters

Module Type	QN-645BC-01	QN-650BC-01	QN-655BC-01	QN-660BC-01	QN-665BC-01
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	645	650	655	660	665
Open Circuit Voltage (Voc)	54.12	54.22	54.32	54.42	54.52
Short Circuit Current (Isc)	15.06	15.14	15.22	15.30	15.35
Maximum Power Voltage (Vmp)	44.77	44.87	44.97	45.07	45.17
Maximum Power Current (Imp)	14.41	14.49	14.57	14.65	14.72
Module Efficiency -ηm (%)	23.9	24.1	24.2	24.4	24.6

Electrical Parameters

Module Type	QN-645BC-01	QN-650BC-01	QN-655BC-01	QN-660BC-01	QN-665BC-01
	NOCT	NOCT	NOCT	NOCT	NOCT
Maximum Power (Pmax)	491	495	499	502	506
Open Circuit Voltage (Voc)	51.43	51.53	51.62	51.72	51.81
Short Circuit Current (Isc)	12.10	12.16	12.22	12.29	12.33
Maximum Power Voltage (Vmp)	42.55	42.64	42.74	42.83	42.93
Maximum Power Current (Imp)	11.55	11.61	11.68	11.75	11.80

Load Capacity

Max Load Front	5400Pa
Max Load Back	2400Pa
Through Hail Testing	25mm Diameter, Impact Speed 23m/s

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Pmax	-0.26%/°C

Operation Parameters

Operational Temperature	-40°C - +85°C
Maximum System Voltage	DC1500V
Maximum Series Fuse Rating	30A
Voc and Isc Tolerance	±3%
Production Class	Class II
Refer.Bifacial Factor	70%±5%
Fire Rating	IEC Class C

STC : Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5

NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5

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