


**Q-SUN** solar


# Qrystal N8

Mono-Crystalline  
**615~635W**

**0~+5W POWER TOLERANCE**

- High efficiency N - type Double glass module
- Stronger properties, PID resistance, reduced hot spot loss
- Higher module power, lower BOS costs
- Harsh environmental adaptation
- Bifacial module, more power generation

15 years material warranty 

30 years power linear warranty 

**156**

HALF-CUT  
CELLS

**182**  
x183.75  
mm

RECTANGULAR  
CELLS

**A sound quality management  
system and product certification**

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



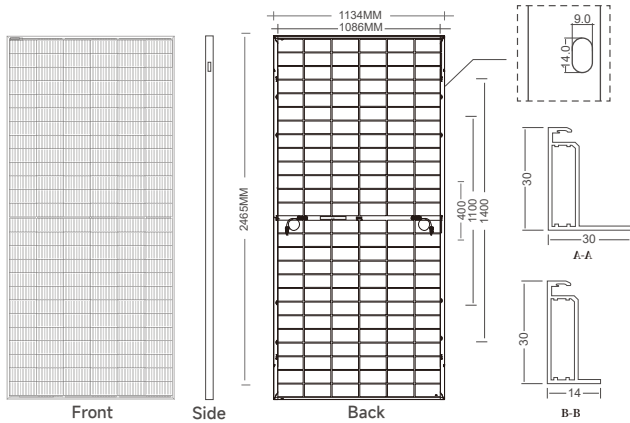
**22.7%**  
MAXIMUM CONVERSION

**0~+5W**  
POWER TOLERANCE

**0.4%**  
0.4% PER YEAR OVER 30 YEARS

**Half-Cut Module**  
LOWER TEMPERATURE COEFFICIENT

## Mechanical Diagrams



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

## Packing Standard

Container capacity(40HQ)

Pallet size (mm) 36pcs/pallet, 20pallets/ctns, 720pcs/ctn

## Electrical Parameters At BNPI

Maximum Power (Pmax)	678	684	689	695	700
Open Circuit Voltage (Voc)	55.11	55.33	55.55	55.77	55.99
Short Circuit Current (Isc135)	15.57	15.64	15.70	15.77	15.83
Maximum Power Voltage (Vmp)	46.73	46.93	47.13	47.33	47.53
Maximum Power Current (Imp)	14.51	14.57	14.62	14.68	14.73
Short Circuit Current (Isc300)	17.35	17.42	17.49	17.56	17.63

## Electrical Parameters

Module Type	QN-615HT-06		QN-620HT-06		QN-625HT-06		QN-630HT-06		QN-635HT-06	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	615	465	620	469	625	472	630	476	635	480
Open Circuit Voltage (Voc)	55.11	52.35	55.33	52.56	55.55	52.77	55.77	52.98	55.99	53.19
Short Circuit Current (Isc)	14.13	11.30	14.18	11.35	14.24	11.39	14.30	11.44	14.36	11.49
Maximum Power Voltage (Vmp)	46.73	44.16	46.93	44.35	47.13	44.54	47.33	44.73	47.53	44.92
Maximum Power Current (Imp)	13.16	10.53	13.21	10.57	13.26	10.61	13.31	10.65	13.36	10.69
Module Efficiency -ηm (%)	22.0		22.2		22.4		22.5		22.7	

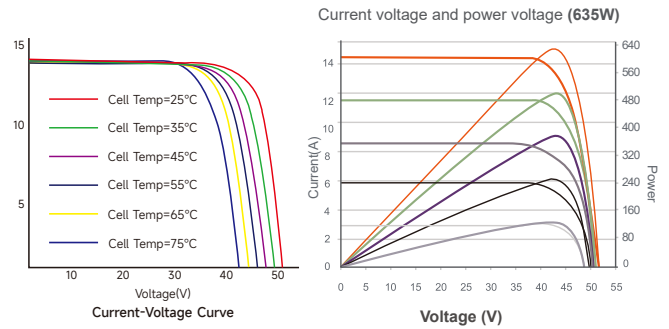
## Load Capacity

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

## Temperature Coefficient (STC Test)

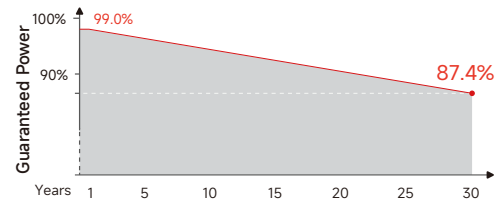
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

## Curve Figure



## Specification

Cell Type	mono crystalline 16BB
No. of Cells	156 [2x(6x13)] pcs
Dimension	2465x1134x30mm
Weight	33.7kg
Front Glass	2.0 mm
Back Glass	2.0 mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)



## Operation Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Nominal Operating Cell Temperature (NOCT)	42±2°C
Safety Class	Class II
Refer.Bifacial Factor	75±10%

**STC** : Irradiance:1000W/m<sup>2</sup> | Battery temperature: 25°C | Atmospheric=1.5

**NOCT**: Irradiance:800W/m<sup>2</sup> | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

**BNPI**: Rear Irradiance 135W/m<sup>2</sup> | Bifaciality coefficient 80%±5%

D5 Greenland Window Building  
Nonghua Road  
Yuhuatai District, Nanjing, China  
www.q-sunsolar.com

