

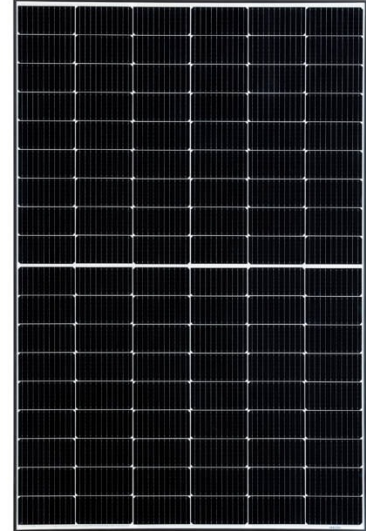


# PERC Mono-crystalline

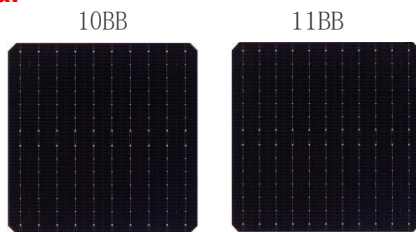
## 390-410 Watt

0~+5W POWER TOLERANCE

High efficiency PERC single glass black solar module



### Cell Busbar



#### Stronger properties

Passes the wind load test of 2400Mpa and the snow load test of 5400Mpa



#### Reduced Hot Spot Loss

Reduce heat absorption and reduce heat loss attenuation



#### PID resistance

The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control



#### Harsh environmental adaptation

Third party certification passed high salt spray and high ammonia corrosion test



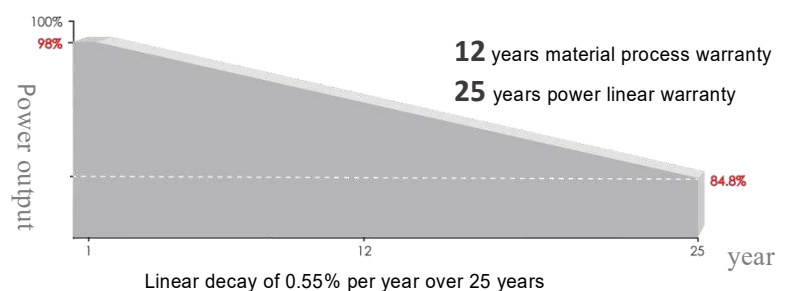
#### Multiple grid and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability



### Long and reliable quality assurance

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO45001:2018: Occupational health and safety management system



## Electrical Parameters

Model Type	QN-390HT-1		QN-395HT-1		QN-400HT-1		QN-405HT-1		QN-410HT-1	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	390	294.9	395	298.6	400	302.3	405	306.0	410	309.6
Open Circuit Voltage (Voc)	36.7	34.4	36.9	34.6	37.1	34.8	37.3	35.0	37.5	35.2
Short Circuit Current (Isc)	13.56	10.93	13.65	10.98	13.73	11.04	13.81	11.10	13.88	11.16
Maximum Power Voltage (Vmp)	30.8	28.4	31.0	28.6	31.2	28.8	31.4	29.0	31.6	29.2
Maximum Power Current (Imp)	12.67	10.38	12.75	10.44	12.83	10.50	12.90	10.56	12.98	10.62
Module Efficiency - $\eta_m$ (%)	19.9		20.2		20.5		20.7		21.0	
Operational Temperature	-40°C~+85°C									
Maximum System Voltage	1500VDC									
Maximum Series Fuse Rating	25A									
Power Tolerance	0~+3%									
Temperature Coefficient of Pmax	-0.380%/°C									
Temperature Coefficient of Voc	-0.289%/°C									
Temperature Coefficient of Isc	+0.055%/°C									
Nominal Operating Cell Temperature	45±2°C									
Safety Class	Class II									
Max Load (Front/back)	5400Mpa/2400Mpa									

STC: Irradiance 1000W/m<sup>2</sup>

Battery temperature 25°C

Atmospheric quality =1.5

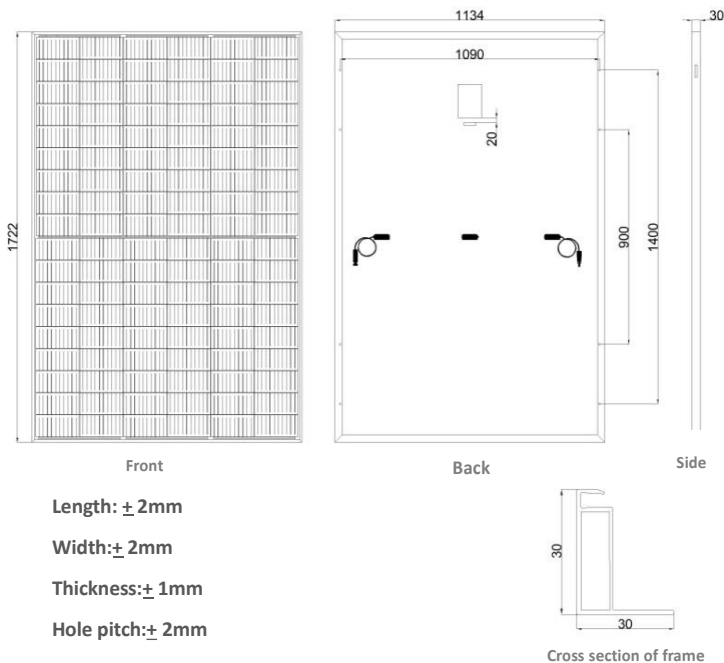
NOCT: Irradiance 800W/m<sup>2</sup>

Ambient temperature 25°C

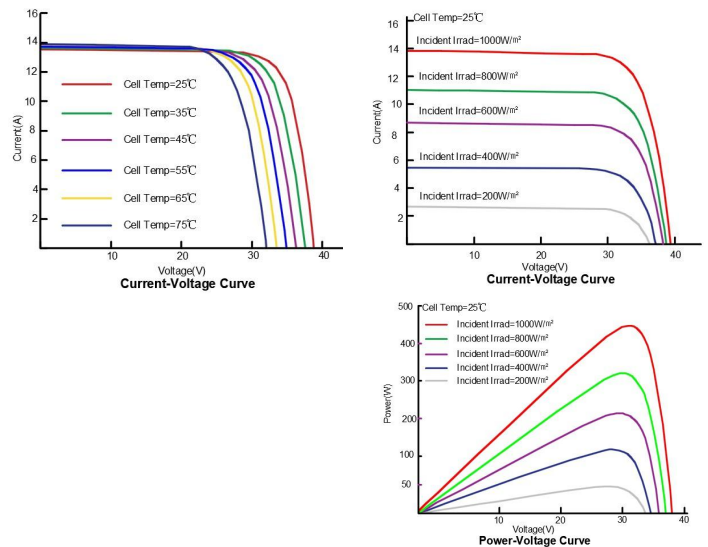
Atmospheric quality =1.5

Wind speed 1m/S

## Mechanical Diagrams



## Curve figure



## Specification

Cell type	PERC mono crystalline, 10BB or 11BB
Half-cell quantity	108 (6×18)
Dimension	1722×1134×30mm
Weight	21kg±3%
Glass	3.2mm ,Coated toughened
Backsheet	black frame,white back
Frame	black Anodized Aluminum Alloy
Junction Box	IP68
Cable	1200mm

## Packing standard

36pcs/pallet

40HQ: 26 pallets/container, 936pcs/container

The company reserves the right of final interpretation

Hersteller (manufacturer): Q-SUN Anhui Co. Ltd.