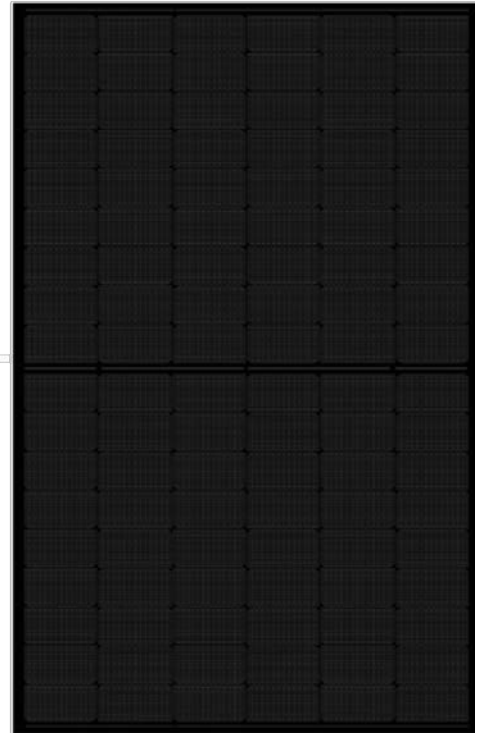


N type Mono-crystalline 420-440 Watt



0~+3% POWER TOLERANCE

High efficiency N - type Double glass black grid solar module

Cell Busbar



Module characteristics



Stronger properties

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



Better attenuation

N-type, Components have better reliability and lower LID/LETID 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

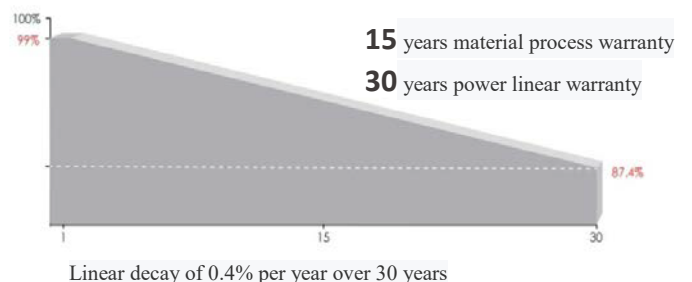
IEC61215 (2016), IEC61730 (2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system

Power output



Electrical Parameters

Model Type	QN-420HD-1		QN-425HD-1		QN-430HD-1		QN-435HD-1		QN-440HD-1	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420	318	425	322	430	326	435	330	440	334
Open Circuit Voltage (Voc)	38.76	36.2	39.04	36.4	39.53	36.6	40.02	36.8	38.7	37
Short Circuit Current (Isc)	13.54	11.27	13.56	11.33	13.57	11.38	13.58	11.43	14.32	11.18
Maximum Power Voltage (Vmp)	32.3	30.0	32.6	30.2	32.9	30.3	33.1	30.5	32.8	30.7
Maximum Power Current (Imp)	13.02	10.62	13.06	13.20	13.09	10.74	13.13	10.82	13.42	10.88
Module Efficiency - η_m (%)	21.0		21.3		21.5		21.8		22.0	
Operational Temperature	-40°C~+85°C									
Maximum System Voltage	1500VDC									
Maximum Series Fuse Rating	25A									
Power Tolerance	0~+3%									
Temperature Coefficient of Pmax	-0.310%/°C									
Temperature Coefficient of Voc	-0.260%/°C									
Temperature Coefficient of Isc	+0.046%/°C									
Nominal Operating Cell Temperature	45±2°C									
Safety Class	Class II									
Max Load (Front/back)	5400Mpa/2400Mpa									

STC: Irradiance 1000W/m²

Battery temperature 25°C

Atmospheric quality =1.5

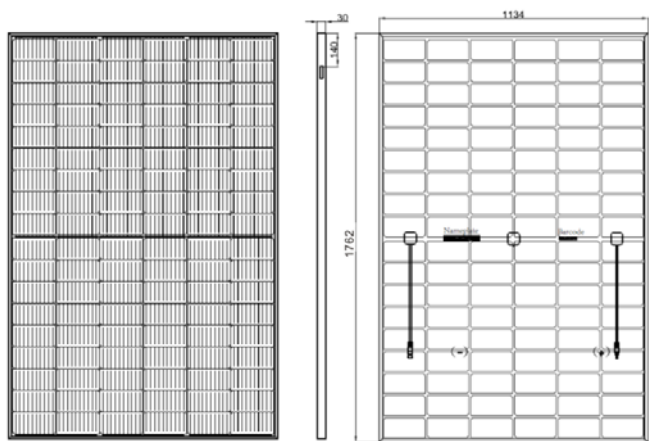
NOCT: Irradiance 800W/m²

Ambient emperature 25°C

Atmospheric quality =1.5

Wind speed 1m/S

Mechanical Diagrams

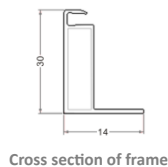


Length: ± 2mm

Width: ± 2mm

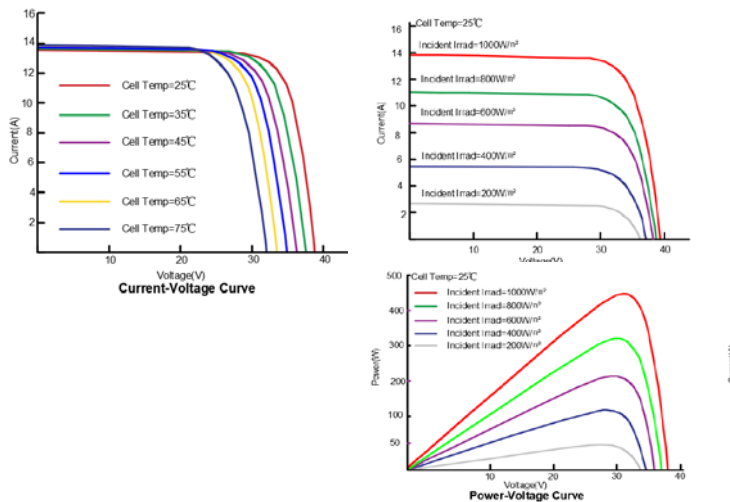
Thickness: ± 1mm

Hole pitch: ± 2mm



Cross section of frame

Curve figure



Specification

Cell type	N type mono crystalline 16BB
Half-cell quantity	108 (6×18) pcs
Dimension	1762×1134×30mm
Weight	25.3kg ± 3%
Front glass	2.0 mm Tempered Glass
Back glass	2.0mm, float, transparent/grid optional
Frame	Black Anodized Aluminum Alloy
Junction Box	IP68
Cable	300mm (can be customized)

Packing standard

36pcs/pallet, Each pallet size: 1792×1130×1245mm

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

The company reserves the right of final interpretation