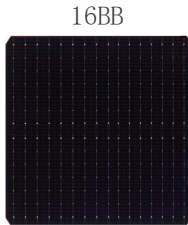


N type Mono-crystalline 410-430 Watt









0~+3% POWER TOLERANCE

High efficiency N - type single glass solar module

Battery grid line

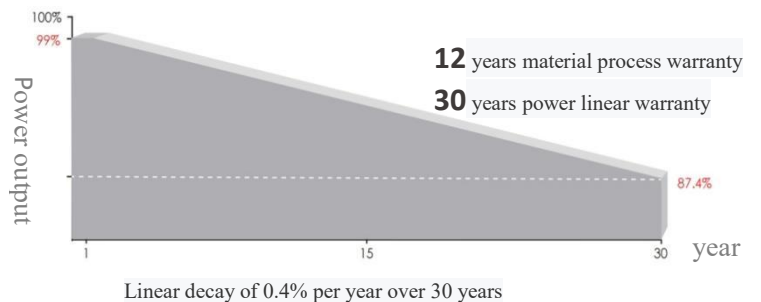


Module characteristics

 <p>Stronger properties Passes the wind load test of 2400Mpa and the snow load test of 5400Mpa</p>	 <p>Better attenuation N-type. Components have better reliability and lower LID/LETID attenuation</p>
 <p>PID resistance The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control</p>	 <p>Harsh environmental adaptation Third party certification passed high salt spray and high ammonia corrosion test</p>
 <p>Multiple grid and Half cell technique More light utilization and current collection capabilities, effectively improving product power output and reliability</p>	  

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-410HN		QN-415HN		QN-420HN		QN-425HN		QN-430HN	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	410	309.6	415	315	420	318	425	322	430	326
Open Circuit Voltage (Voc)	37.5	35.2	37.7	36.0	37.9	36.2	38.1	36.4	38.3	36.6
Short Circuit Current (Isc)	13.88	11.16	13.96	11.22	14.04	11.27	14.11	11.33	14.18	11.38
Maximum Power Voltage (Vmp)	31.6	29.2	31.8	29.8	32.0	30.0	32.2	30.2	32.4	30.3
Maximum Power Current (Imp)	12.98	10.62	13.06	10.56	13.13	10.62	13.20	10.67	13.28	10.74
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

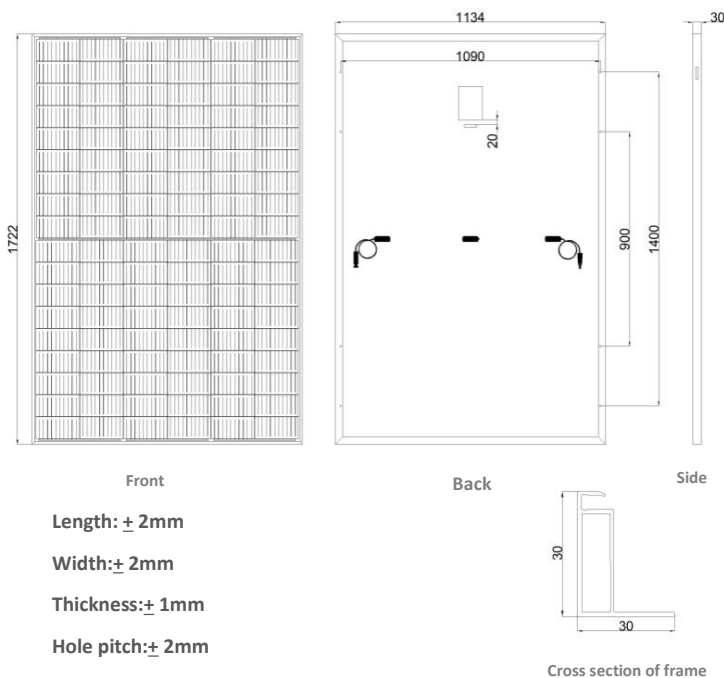
NOCT: Irradiance 800W/m²

Ambient temperature 25°C

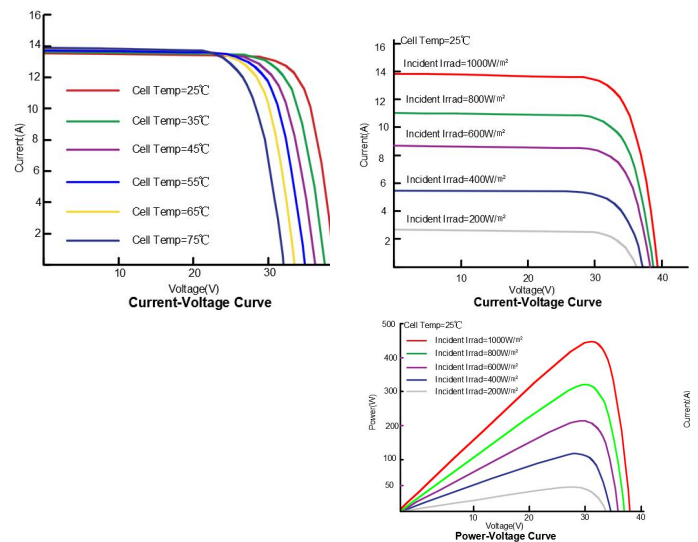
Atmospheric quality =1.5

Wind speed 1m/S

Mechanical Diagrams



Curve figure



Specification

Cell type	N type mono crystalline 16BB
Half-cell quantity	108 (6×18)
Dimension	1722×1134×30
Weight	22kg±3%
Glass	3.2 Coated toughened
Frame	Sliver/black Anodized Aluminum Alloy
Junction Box	IP68
Cable	300mm (can be customized)

Packing standard

36pcs/pallet, Each pallet size: 1760×1130×1245mm

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