

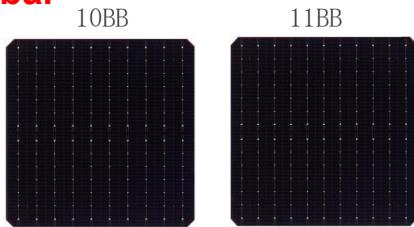
PERC Mono-crystalline 430-455Watt



0~+3% POWER TOLERANCE

High efficiency PERC single glass solar module

Cell Busbar



Module characteristics



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



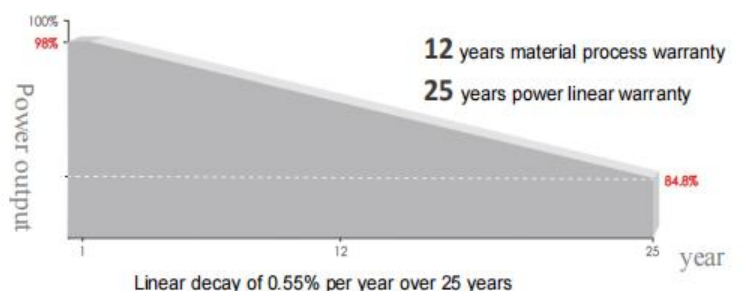
Long and reliable quality assurance

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-430HT		QN-435HT		QN-440HT		QN-445HT		QN-450HT		QN-455HT	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	430	322.5	435	326.3	440	330	445	333.7	450	337.6	455	341.2
Open Circuit Voltage (Voc)	40.75	38.09	40.90	46.31	41.05	38.36	41.20	38.50	41.35	38.64	41.5	38.79
Short Circuit Current (Isc)	13.51	10.80	13.59	11.05	13.67	10.97	13.75	11.06	13.83	11.14	13.90	11.22
Maximum Power Voltage (Vmp)	34.30	31.22	34.45	38.78	34.60	31.49	34.75	31.63	34.9	31.76	35.05	31.90
Maximum Power Current (Imp)	12.54	10.33	12.63	10.43	12.72	10.48	12.81	10.55	12.90	10.63	12.99	10.70
Module Efficiency - ηm (%)	19.9		20.1		20.3		20.5		20.8		21.0	
Operational Temperature	-40℃~+85℃											
Maximum System Voltage	1500VDC											
Maximum Series Fuse Rating	25A											
Power Tolerance	0~+3%											
Temperature Coefficient of Pmax	-0.380%/℃											
Temperature Coefficient of Voc	-0.289%/℃											
Temperature Coefficient of Isc	+0.055%/℃											
Nominal Operating Cell Temperature	45±2℃											
Safety Class	Class II											
Max Load (Front/back)	5400Mpa/2400Mpa											

STC: Irradiance 1000W/m²

Battery temperature 25℃

Atmospheric quality =1.5

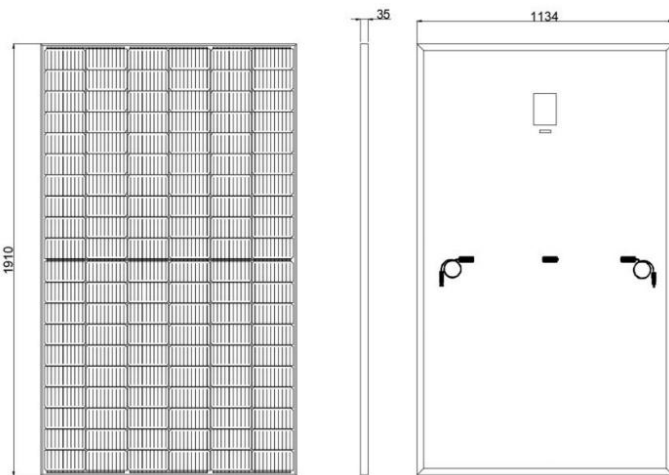
NOCT: Irradiance 800W/m²

Ambient temperature 25℃

Atmospheric quality =1.5

Wind speed 1m/S

Mechanical Diagrams

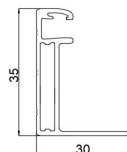


Length: ± 2mm

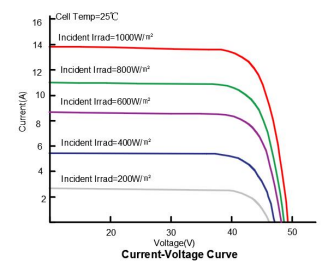
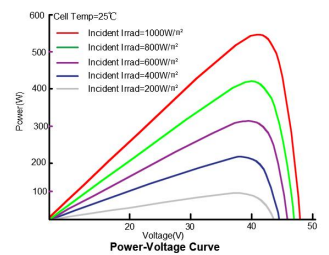
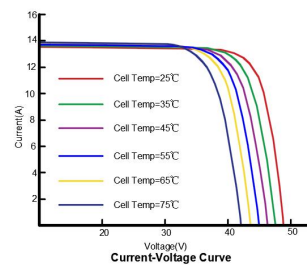
Width: ± 2mm

Thickness: ± 1mm

Hole pitch: ± 2mm



Curve figure



Specification

Cell type	PERC mono crystalline 10BB/11BB
Half-cell quantity	120pcs (6×20)
Dimension	1910×1134×35mm
Weight	24kg±3%
Glass	3.2mm ,Coated toughened
Frame	silvery/black Anodized Aluminum Alloy
Junction Box	IP68
Cable	300mm (can be customized)

Packing standard

31pcs/pallet, Each pallet size: 1940×1130×1245mm

40GP:24pallets/container, 744pcs/container