

N type Mono-crystalline 545-570 Watt

High efficiency N - type single glass solar module

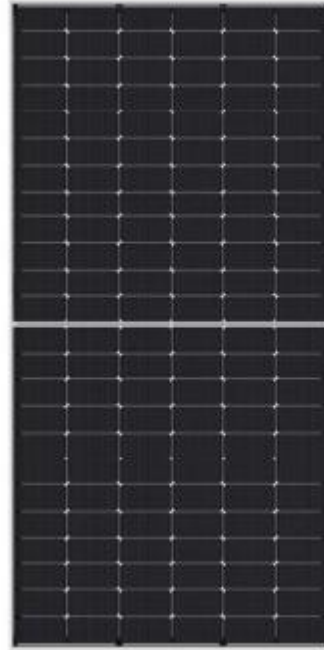
0~+3% POWER TOLERANCE

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



Module characteristics



Multiple grid and Half cell technique

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



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



HoT 2.0 technique

N type module using HoT 2.0 technology have better reliability and lower LID/LETID decay

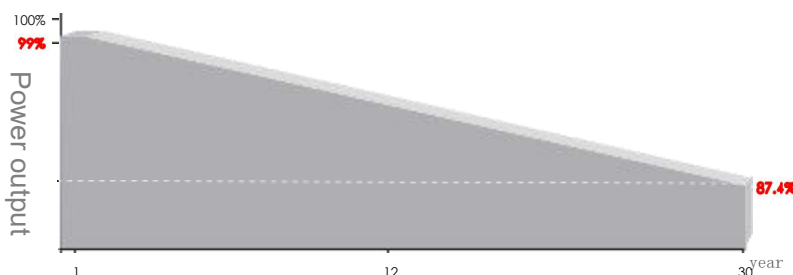


Load capacity

The whole assembly is certified for 2400Pa wind load and 5400Pa snow load.



Leading linear warranty in the industry

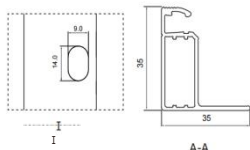
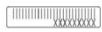
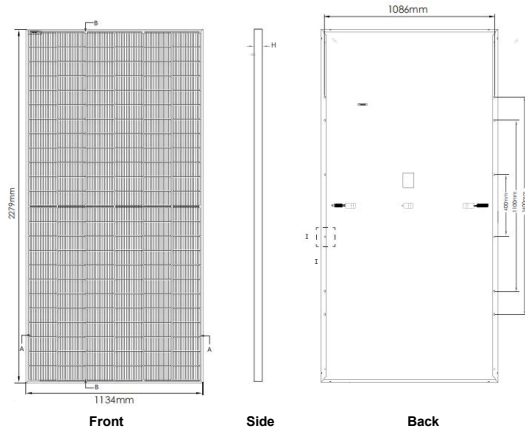


12 years material process warranty

30 years power linear warranty

Linear decay of **0.4%** per year over 30 years

Mechanical Diagrams



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

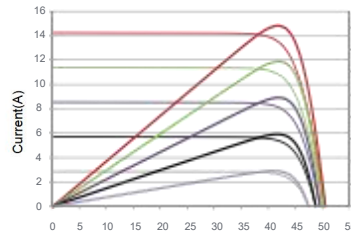
Packing standard

Container capacity (40GP)

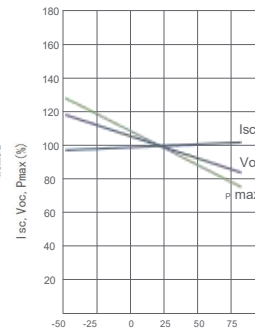
Pallet size (mm) 2308 x 1120 x 1249 31pcs/pallet , 20pallets / CTNS , 620PCS / CTN

Curve figure

Current voltage and power voltage (565W)



Isc, Voc, Pmax temperature



Specification

Cell type	N type mono crystalline 16BB
Half-cell quantity	144 (2x72)
Dimension	2279x1134x35mm
Weight	28kg
Glass	3.2 mm, low iron semi toughened, embossed
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Cable	TÜV 1x4.0mm ² (can be customized) Length (+): 280mm, (-): 280mm;

Electrical Parameters

Module type	QN-545HN		QN-550HN		QN-555HN		QN-560HN		QN-565HN		QN-570HN	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	545Wp	409Wp	550Wp	413Wp	555Wp	417Wp	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp
Maximum Power Voltage (Vmp)	41.38V	38.86V	41.51V	38.99V	41.64V	39.12V	41.77V	39.25V	41.92V	39.38V	42.01V	39.51V
Maximum Power Current (Imp)	13.18A	10.53A	13.26A	10.60A	13.33A	10.67A	13.41A	10.73A	13.48A	10.79A	13.55A	10.85A
Open Circuit Voltage (Voc)	50.08V	47.58V	50.21V	47.70V	50.34V	47.82V	50.47V	47.94V	50.60V	48.06V	50.74V	48.20V
Short Circuit Current (Isc)	13.91A	11.24A	13.99A	11.30A	14.07A	11.36A	14.15A	11.42A	14.23A	11.49A	14.31A	11.55A
Module Efficiency - ηm (%)	21.1%		21.3%		21.5%		21.7%		21.9%		22.1%	
Operational Temperature (°C)	-40°C~+85°C											
Maximum System Voltage	1500VDC (IEC)											
Maximum Series Fuse Rating	25A											
Power Tolerance	0~+3%											
Temperature Coefficient of Pmax	-0.30%/°C											
Temperature Coefficient of Voc	-0.25%/°C											
Temperature Coefficient of Isc	0.046%/°C											
Nominal Operating Cell Temperature (NOCT)	45±2°C											

STC: Irradiance 1000W/m²



Battery temperature: 25°C



Atmospheric=1.5



Wind speed 1m/S

NOCT: Irradiance 800W/m²



Ambien temperature : 20°C



Atmospheric=1.5

* Power range +/-3%

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