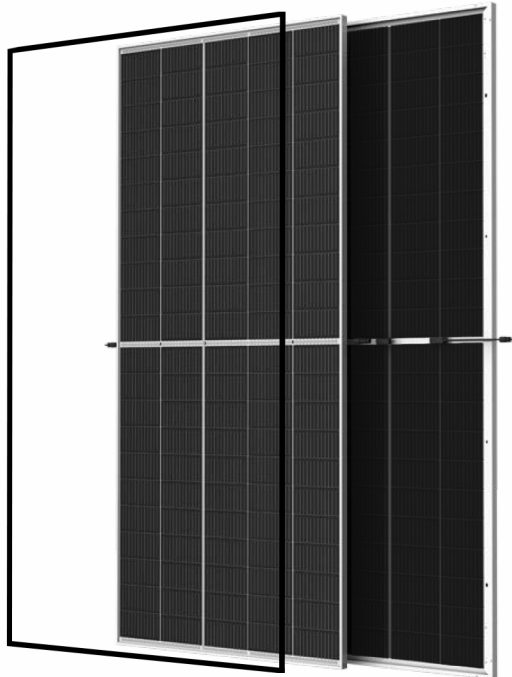




High TOPCon Module

NP-9612-NP-DGDC 600

570W | 575W | 580W | 585W | 590W
595W | 600W

600W

Maximum
Power Output

23.23%

Maximum
Efficiency

85±5%

Bifaciality

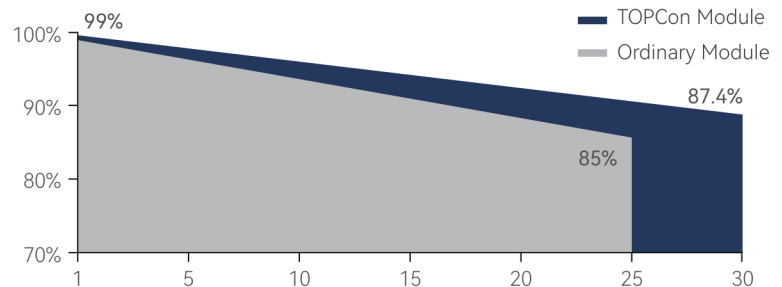
12 Years

Product
Warranty

30 Years

Linear Power
Warranty

Quality Assurance



Product Features



SMBB Half Cell

Multi-busbar half-cell design, higher module efficiency and power output



M10 Cell / Module

M10 size wafer, applicable to multiple scenarios



High Reliability

Certified mechanical performance up to 5400 Pa positive load and 2400 Pa negative load, with better protection against harsh weather



High Energy Yield

Maximum Module Efficiency up to 23.23% achieved by mature mass production HJT cell technology



Better Warranty

Extremely low LID/PID in longer service life, less than 12.6% power degradation in 30 years



Higher Performance

Lower temperature coefficient and low operation temperature, resulting in better energy yield in all-weather

Certificates



Electrical Data(STC)

Model	NP-9612-NP-DGDC570	NP-9612-NP-DGDC575	NP-9612-NP-DGDC580	NP-9612-NP-DGDC585	NP-9612-NP-DGDC590	NP-9612-NP-DGDC595	NP-9612-NP-DGDC600
Pmax(Wp)	570	575	580	585	590	595	600
Voc(V)	51.09	51.29	51.49	51.69	51.89	52.09	52.29
Isc(A)	14.23	14.29	14.35	14.41	14.47	14.53	14.59
Vmpp(V)	42.32	42.47	42.62	42.77	42.92	43.07	43.22
Impp(A)	13.47	13.54	13.61	13.68	13.75	13.82	13.89
Efficiency	22.07%	22.26%	22.45%	22.64%	22.83%	23.03%	23.23%

STC: AM1.5 Irradiance: 1000W/m², Temperature=25°C

Electrical Characteristics(NOCT)

Model	NP-9612-NP-DGDC570	NP-9612-NP-DGDC575	NP-9612-NP-DGDC580	NP-9612-NP-DGDC585	NP-9612-NP-DGDC590	NP-9612-NP-DGDC595	NP-9612-NP-DGDC600
Pmax(Wp)	429	432	435	438	441	444	447
Voc(V)	48.53	48.72	48.91	49.10	49.29	49.48	49.67
Isc(A)	11.48	11.53	11.58	11.63	11.68	11.73	11.78
Vmpp(V)	39.67	39.81	39.93	40.02	40.11	40.20	40.29
Impp(A)	10.79	10.86	10.91	10.96	11.01	11.06	11.11

αIsc (%/K) : 0.045; βVoc (%/K) : -0.25; γPmp (%/K) : -0.29

AM1.5, irradiance: 800W/m², Temperature=25°C, Wind speed=1m/s

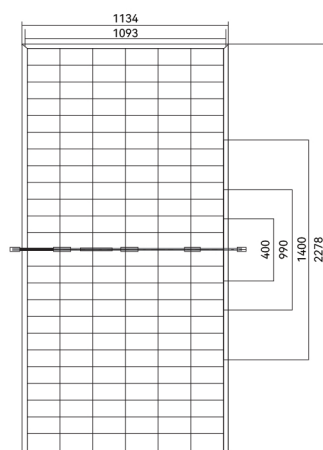
Mechanical Data

Cell	182.2x183.75/182.2x182.2/182x182 mm
Weight	32±0.5kg
Dimension	2278x1134x30mm
Cable	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration	36pcs/pallet, 20pallets/container, 720pcs/container; 36pcs/pallet, 23pallet/Trailer, 828pcs/Trailer

Working Condition

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rating	30A
Rear Side Mechanical Load	2400Pa
Front Side Mechanical Load	5400Pa
NOCT	44±2°C
Safety Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

Dimensions (mm)



I-V Diagram

