

APEX-108HBD
N425-N445M10

N-TOPCon Technology

22.76%

Maximum Module Efficiency

445W

Maximum Power Output

Power Tolerance:0-3W

1724×1134×30mm

Module Dimensions

IEC 61215 / IEC 61730

Fire safty class:Class C according to UL790

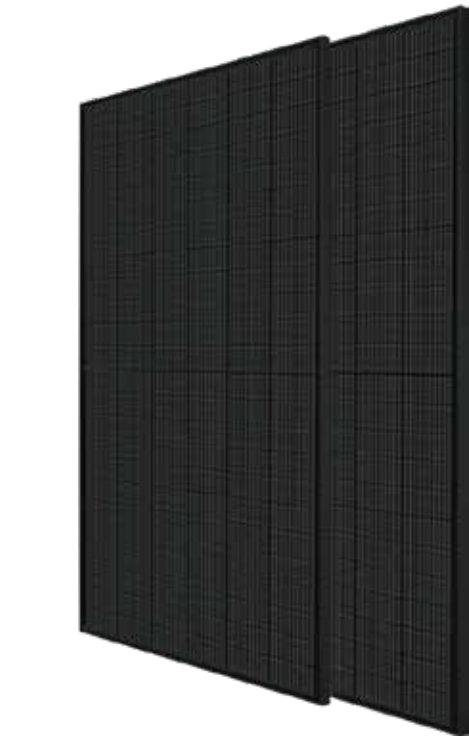
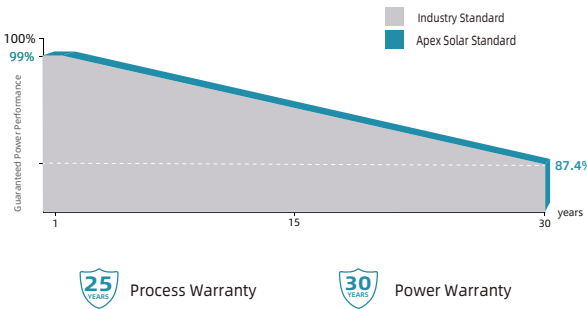
ISO 9001 :Quality Management System

ISO 14001 :Environment Management



Industry Leading Linear Power Warranty

25-year Warranty for Materials and Processing ,30-year Warranty for Extra Linear Power Output



- 0-3W**
Guaranteed 0-3W positive tolerance ensures the power output reliability
- High customer value**
Lower cost per kilowatt hour.High quality silicon wafer guarantee,high power module output, excellent cost performance advantage,is an ideal choice for solar power stations
- Highly reliable due to stringent quality control**
Three times strict EL testing beyond certification requirements
- Fusion of MBB and half-cut cells technology**
The new circuit design, minimizes the impact of shadow on the power generation of solar module.Excellent light utilization and current collection capacity, effectively improve product power output and reliability
- Excellent Anti-PID performance**
Ensure that the scale production passes the PID test, and greatly reduce he attenuation caused by PID by optimizing the wafer process
- Outstanding low light performance**
The coated glass with high transmittance and the surface technology of the wafer are used to achieve excellent performance in low light environment

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ELECTRICAL PARAMETERS AT STC

Rated Maximum Power(Pmax) [W]	425	430	435	440	445
Maximum Power Voltage(Vmp) [V]	32.37	32.58	32.78	32.99	33.19
Maximum Power Current(Imp) [A]	13.13	13.20	13.27	13.34	13.41
Open Circuit Voltage(Voc) [V]	38.95	39.16	39.36	39.57	39.77
Short Circuit Current(Isc) [A]	13.58	13.65	13.72	13.80	13.87
Module Efficiency [%]	21.30	21.50	21.80	22.00	22.76

STC: Irradiance 1000 W/m2 module temperature 25°C AM=1.5

ELECTRICAL PARAMETERS AT NMOT

Rated Maximum Power(Pmax)[W]	320	323	327	331	335
Maximum Power Voltage(Vmp) [V]	30.19	30.30	30.50	30.73	30.93
Maximum Power Current(Imp) [A]	10.60	10.66	10.72	10.77	10.83
Open Circuit Voltage(Voc) [V]	37.00	37.20	37.39	37.59	37.78
Short Circuit Current(Isc) [A]	10.96	11.02	11.08	11.14	11.20

NMOT: Irradiance 800 W/m2 ambient temperature 20°C wind speed: 1m/s

BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power (Pmax) [W]	446	452	457	462	467
	Module Efficiency STC[%]	22.83	23.09	23.36	23.63	23.90
10%	Maximum Power (Pmax) [W]	468	473	479	484	490
	Module Efficiency STC[%]	23.91	24.19	24.48	24.76	25.04
20%	Maximum Power (Pmax) [W]	510	516	522	528	534
	Module Efficiency STC[%]	26.09	26.39	26.70	27.01	27.31

MECHANICAL SPECIFICATION

Cell Type	N-Type Monocrystalline
C ell Dimensions	182×182mm
Cell Arrangement	108(6×18)
Weight	24kg(±3%)
Module Dimensions	1724×1134×30mm
Cable	4.0 mm²positive/negative:300mm(11.8inches),length Can be customized
Front Glass	2.0 mm (0.08 inches), High Transmission, ARCoated Heat Strengthened Glass
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	Anodized aluminium alloy
Junction Box	Protection class IP68
Connector	Mc4 Compatible
Mechanical Load	Front side 5400Pa/Rear side 2400Pa

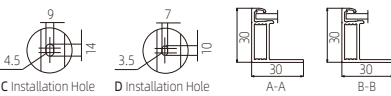
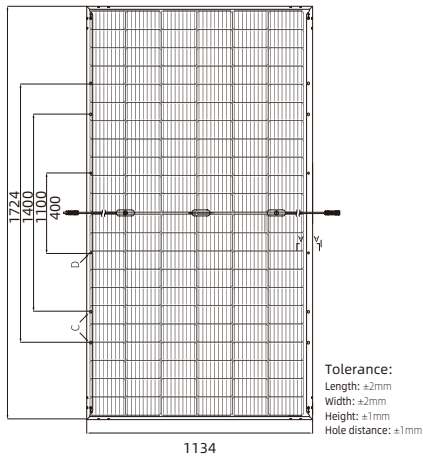
OPERATING CONDITIONS

Maximum System Voltage (V)	1000/1500VDC (IEC)
Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.28%/°C
ISC Temperature Coefficient	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C
Operating Temperature	- 40°C~+85°C
Maximum Series Fuse	25A

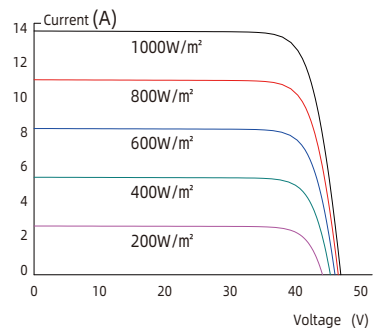
PACKING CONFIGURATION

Quantity/Pallet	36pcs/pallet
Quantity/Container	936pcs/40HQ

Module Dimension(mm)



Current-Voltage Curve (445W)



Power-Voltage Curve (445W)

