

## 108cells Monocrystalline Bifacial Dual Glass Black Module

# 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 safety class:Class A according to UL790

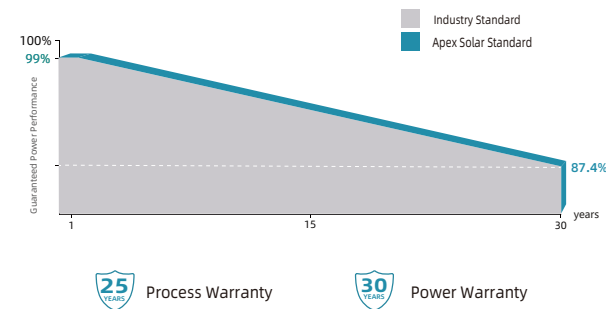
ISO 9001 :Quality Management System

ISO 14001 :Environment Management



### Industry Leading Linear Power Warranty

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



## APEX-108HBD-N425-N445M10

### 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/m<sup>2</sup> 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/m<sup>2</sup> ambient temperature 20°C wind speed: 1m/s

### BIFACIAL OUTPUT-REAR SIDE 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
Cell Dimensions	182×182mm
Cell Arrangement	108(6×18)
Weight	24kg(±3%)
Module Dimensions	1724×1134×30mm
Cable	4.0 mm <sup>2</sup> positive/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

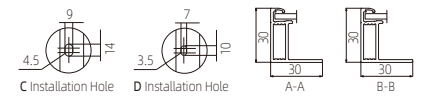
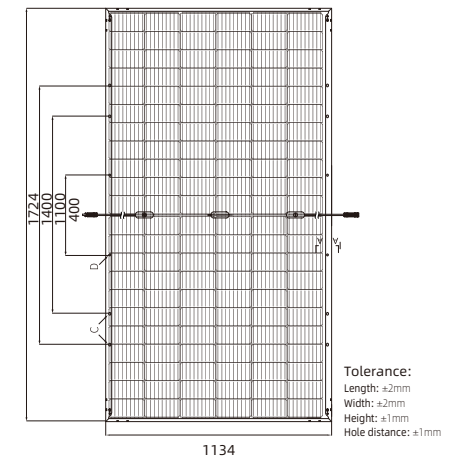
### OPERATING CONDITIONS

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

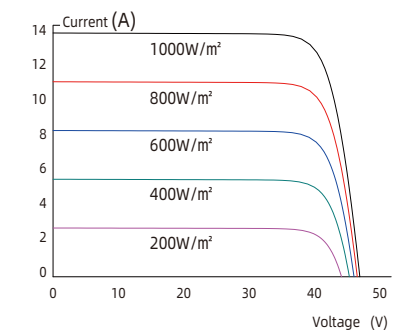
### PACKING CONFIGURATION

Quantity/Pallet	37pcs/pallet
Quantity/Container	962pcs/40HQ

### Module Dimension(mm)



### Current-Voltage Curve (445W)



### Power-Voltage Curve (445W)

