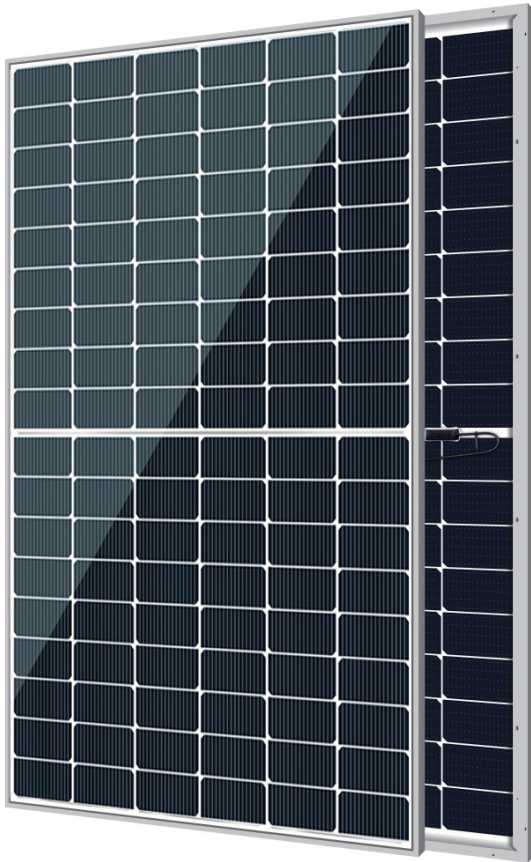


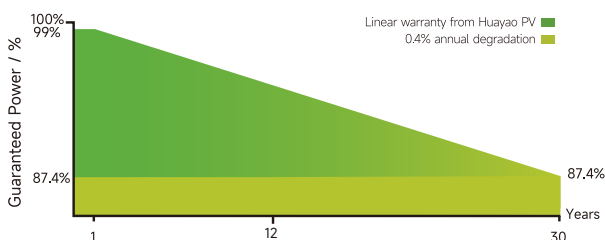
420~440W HY440-N108BDD



silver or black frame

## LINEAR PERFORMANCE WARRANTY

- 15 Year Product Warranty
- 30 Year Linear Power Warranty



## Hyper N54

N-TOPCon, Bi-facial  
108-cell, MBB  
0~+3% positive tolerance

## KEY FEATURES



### Mbb half cell design

Half-cut cells brings lower cell connection loss and lower thermal coefficients to ensures higher power output



### More Power

Industry leading N-TOPCon technology applied to generate ultra-high power up to 440Wp with optimized temperature coefficient and lower working temperature



### High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and the TOPCon cell performance boost the power warranty to 30 Year



### Excellent Low-light Performance

Advanced N-TOPCon solar cell technology allows for excellent performance in low-light environments



### Highly Strengthened Design

Certified to withstand 5400Pa snow load and 2400Pa wind load



### PID Resistant

Excellent PID resistance performance optimized by unique cell process design and BOM material control



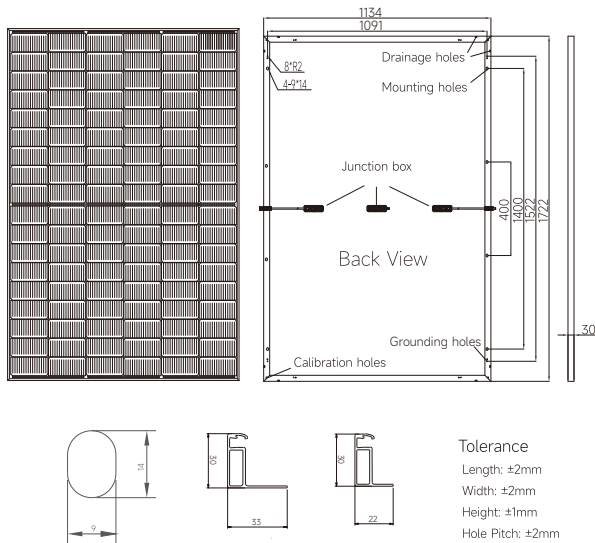
### Fire resistance

Class of reaction to Class A

IEC 61215 (2016), IEC 61730 (2016)



## Engineering Drawings



## Electrical Characteristics

	HY420-N108BDD	HY425-N108BDD	HY430-N108BDD	HY435-N108BDD	HY440-N108BDD
Pmax(W)	430	435	440	445	450
Vmp(V)	31.74	31.89	32.05	32.21	32.37
Imp(A)	13.55	13.64	13.73	13.82	13.91
Voc (V)	38.36	38.54	38.72	38.90	39.08
Isc(A)	14.36	14.46	14.56	14.66	14.76
Module efficiency(%)	22.02	22.27	22.53	22.79	23.04
Maximum system voltage(V)	1500				
Fuse Rating(A)	25				
Temperature coefficient Pmax(%°C)	-0.30				
Temperature coefficient Isc(%°C)	0.046				
Temperature coefficient Voc(%°C)	-0.25				

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

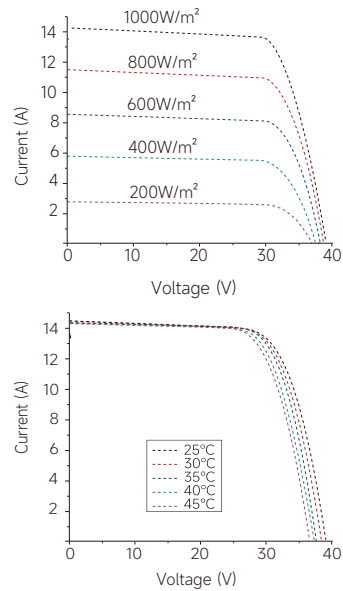
### Bifacial Output-Backside Power Gain

		Backside Power Gain				
		462	467.5	473	478.5	484
10%	Pmax(W)	462	467.5	473	478.5	484
	Module efficiency(%)	23.66	23.94	24.22	24.50	24.78
20%	Pmax(W)	504	510	516	522	528
	Module efficiency(%)	25.81	26.12	26.42	26.73	27.04

## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1750*1130*1247
Weight of packing (kg)	869
Pieces per container	936
Size of container	40' HQ

## I-V Curves



## Working Characteristics

	HY420-N108BDD	HY425-N108BDD	HY430-N108BDD	HY435-N108BDD	HY440-N108BDD
Pmax(W)	327	331	335	339	343
Vmp(V)	29.62	29.79	29.96	30.12	30.28
Imp(A)	11.04	11.11	11.18	11.26	11.33
Voc(V)	36.01	36.12	36.28	36.51	36.69
Isc(A)	11.59	11.67	11.75	11.83	11.91
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

## Mechanical Characteristics

Number of cells	108 pcs
Size of cell (mm)	182*91
Type of cell	N type Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1722*1134*30
Weight (kg)	23.5
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cable	Portrait: +300mm/ -300mm

## Maximum Ratings

Operating Temperature(°C)	-40-85
Operating humidity(%)	5-85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

