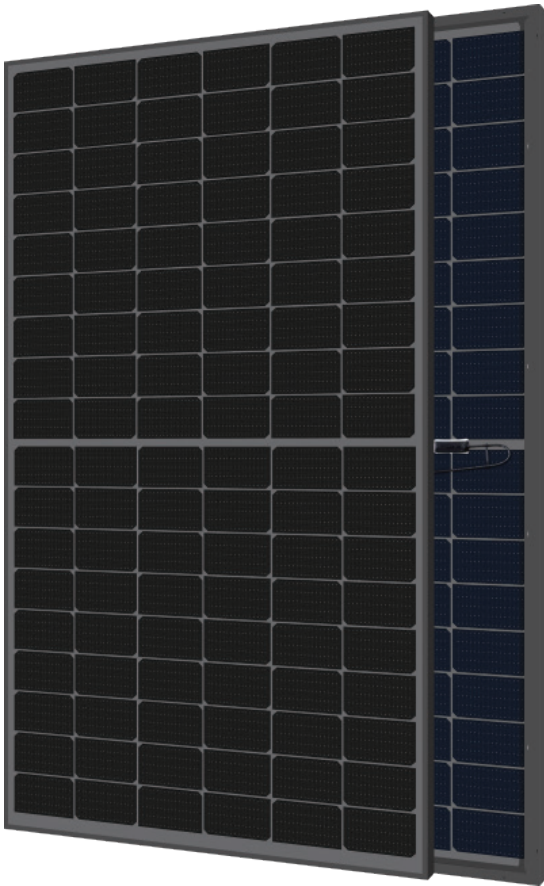


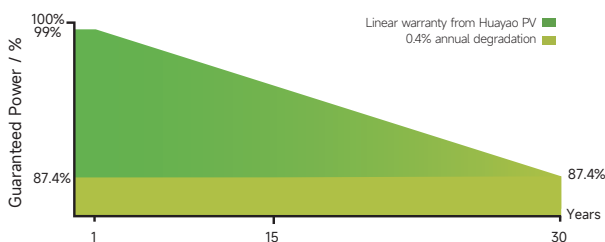
420~440W HY440-N108BDD



full black type

LINEAR PERFORMANCE WARRANTY

- 15 Year Product Warranty
- 30 Year Linear Power Warranty



Hyper N54

N-TOPCon, Bi-facial
Full Black
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

IEC 61215 (2016), IEC 61730 (2016)

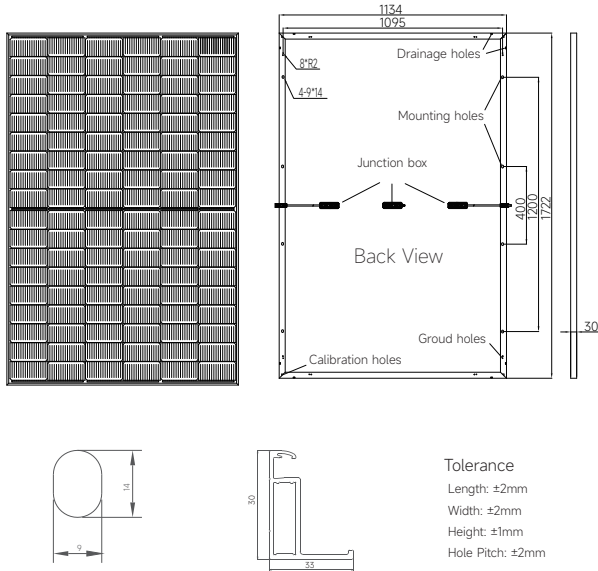


HY440-N108BDD

Full Black

Hyper N54

Engineering Drawings



Electrical Characteristics

	HY420-N108BDD	HY425-N108BDD	HY430-N108BDD	HY435-N108BDD	HY440-N108BDD
P _{max} (W)	420	425	430	435	440
V _{mp} (V)	31.42	31.58	31.74	31.89	32.05
I _{mp} (A)	13.37	13.46	13.55	13.64	13.73
V _{oc} (V)	38.00	38.18	38.36	38.54	38.72
I _{sc} (A)	14.16	14.26	14.36	14.46	14.56
Module efficiency(%)	19.41	19.64	19.87	20.10	20.34
Maximum system voltage(V)	1500				
Fuse Rating(A)	25				
Temperature coefficient P _{max} (%/°C)	-0.30				
Temperature coefficient I _{sc} (%/°C)	0.046				
Temperature coefficient V _{oc} (%/°C)	-0.25				

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

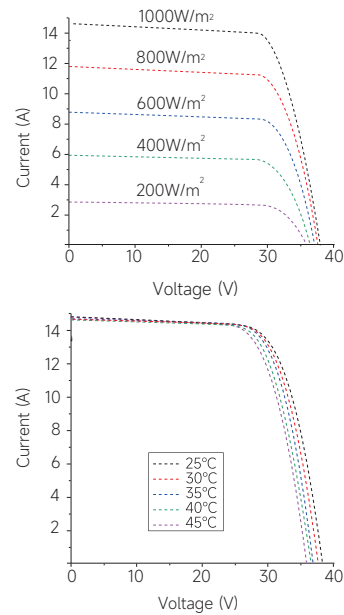
Bifacial Output-Backside Power Gain

	P _{max} (W)	462	467	473	478	484
10%	Module efficiency(%)	21.35	21.60	21.85	22.11	22.37
20%	P _{max} (W)	504	510	516	522	528
	Module efficiency(%)	23.29	23.56	23.84	24.12	24.40

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1748*1116*1230
Weight of packing (kg)	953.6
Pieces per container	720
Size of container	40' HQ

I-V Curves



Working Characteristics

	HY420-N108BDD	HY425-N108BDD	HY430-N108BDD	HY435-N108BDD	HY440-N108BDD
P _{max} (W)	315	319	323	326	329
V _{mp} (V)	29.28	29.46	29.61	29.69	29.77
I _{mp} (A)	10.76	10.83	10.91	10.98	11.05
V _{oc} (V)	36.20	36.38	36.56	36.74	36.92
I _{sc} (A)	11.36	11.42	11.50	11.56	11.62
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

NOCT: Conditions: Irradiance 800W/m², 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)	25.1
Cables/connectors	4mm ² , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

Maximum Ratings

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

