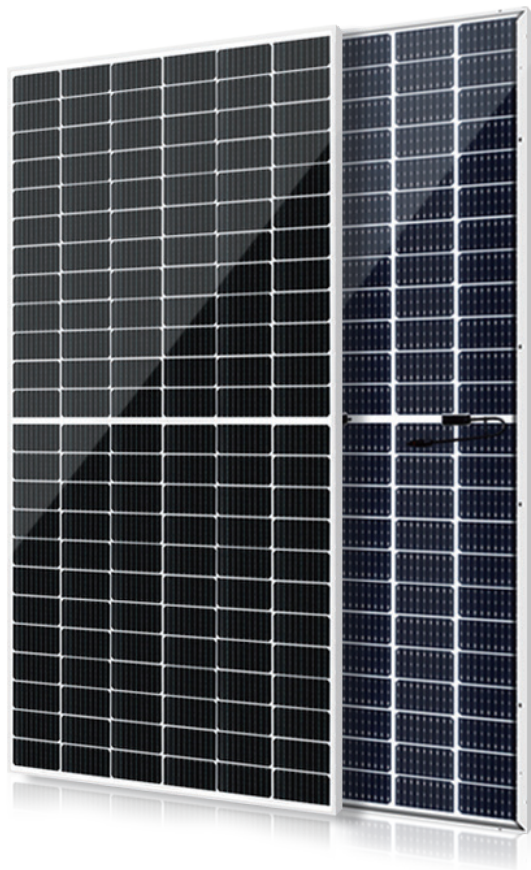
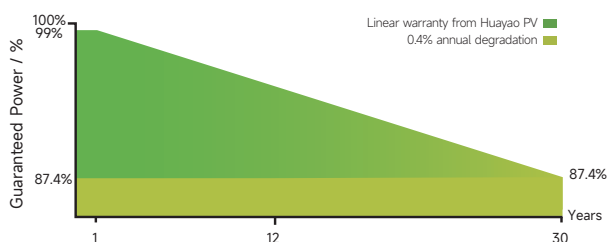


555~560W HY555~560-N144BDD



LINEAR PERFORMANCE WARRANTY

- 15** Year Product Warranty
- 30** Year Linear Power Warranty



Hyper N72

N-TOPCon, Bi-facial
144-cell, MBB
±3% power tolerance

KEY FEATURES



MBB half cell design

Half-cut cells bring lower cell connection loss and lower thermal coefficients to ensure higher power output



More Power

Industry leading N-TOPCon technology applied to generate ultra-high power up to 620 Wp 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



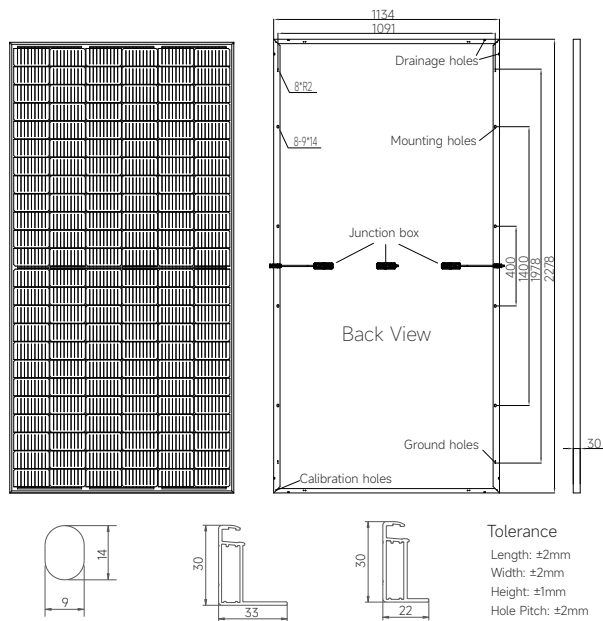
PID Resistant(Available on Request)

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

IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



Electrical Characteristics

	HY555-N144BDD	HY560-N144BDD
P _{max} (W)	555	560
V _{mp} (V)	41.79	42.00
I _{mp} (A)	13.28	13.34
V _{oc} (V)	50.46	50.66
I _{sc} (A)	14.06	14.12
Module efficiency(%)	21.48	21.67
Maximum system voltage(V)	1500	
Fuse Rating(A)	25	
Temperature coefficient P _{max} (%/°C)	-0.34	
Temperature coefficient I _{sc} (%/°C)	0.04	
Temperature coefficient V _{oc} (%/°C)	-0.25	

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

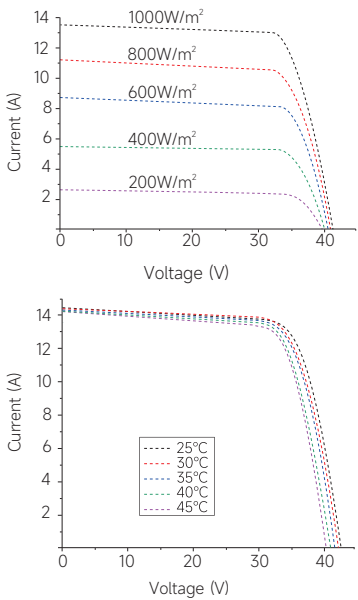
Bifacial Output-Backside Power Gain

10%	P _{max} (W)	610	616
	Module efficiency(%)	23.63	23.84
20%	P _{max} (W)	666	672
	Module efficiency(%)	25.78	26.01

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2320*1140*1275
Weight of packing (kg)	1186
Pieces per container	720
Size of container	40' HQ

I-V Curves



Working Characteristics

	HY555-N144BDD	HY560-N144BDD
P _{max} (W)	419	423
V _{mp} (V)	39.22	39.42
I _{mp} (A)	10.67	10.72
V _{oc} (V)	47.93	48.12
I _{sc} (A)	11.35	11.40
Power tolerance(%)	±3	
NOCT(°C)	44±2	

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

Mechanical Characteristics

Number of cells	144 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)	2278*1134*30
Weight (kg)	31.7
Cables/connectors	4mm ² , Genuine MC4-EVO
Length of Cable	Portrait: +300mm/ -300mm

Maximum Ratings

Fire Rating	Class C (IEC 61730)
Operating Temperature(°C)	-40~85
Operating humidity(°C)	5-85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

