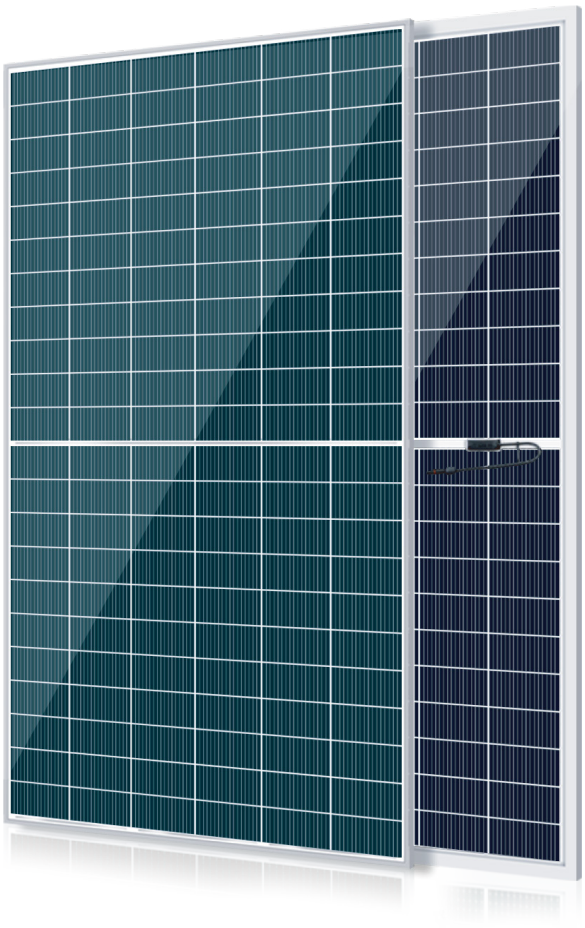
HuaYaoPV

625~645W **HY645-N132EDD**



Hyper N66

N-TOPCon, Bi-facial
132-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 outpur

More Pewer
Industry leading N-TOPCon technology applied to generate ultra-high power up to 645 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

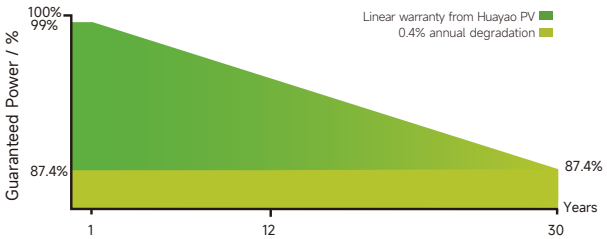
Highly Strengthened Design
Certified to withstand 5400Pa snow load and 2400Pa wind load

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

Fire resistance
Class of reaction to Class A

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty
30 Year Linear Power Warranty



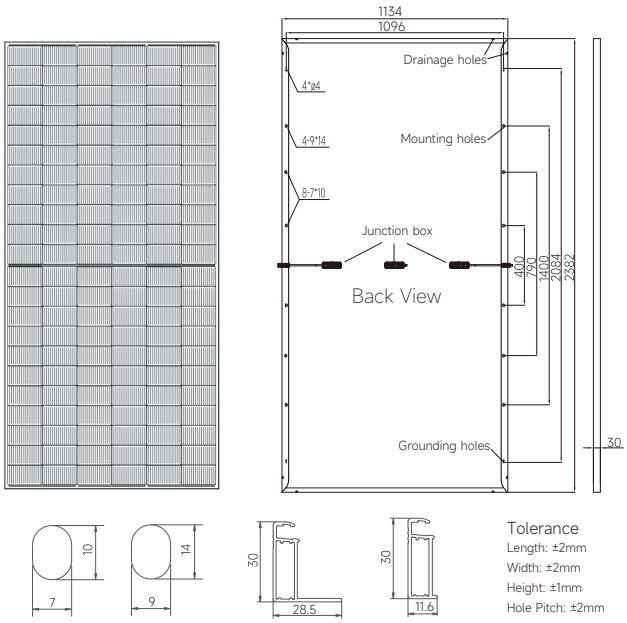
IEC 61215, IEC 61730

WWW.HY-PV.COM

HY645-N132EDD

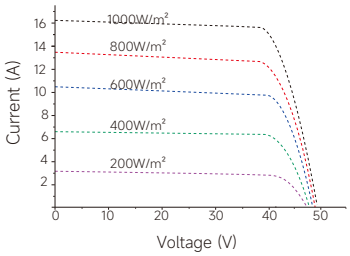
Hyper N66

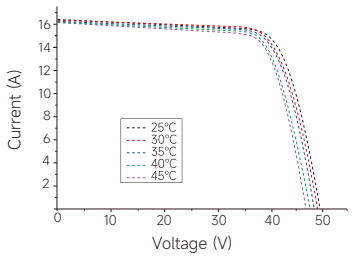
Engineering Drawings



Tolerance
Length: ±2mm
Width: ±2mm
Height: ±1mm
Hole Pitch: ±2mm

I-V Curves





Electrical Characteristics

	HY625-N132EDD	HY630-N132EDD	HY635-N132EDD	HY640-N132EDD	HY645-N132EDD
Pmax(W)	625	630	635	640	645
Vmp(V)	41.12	41.26	41.40	41.54	41.67
Imp(A)	15.20	15.27	15.34	15.41	15.48
Voc (V)	48.94	49.05	49.20	49.33	49.46
Isc(A)	16.08	16.14	16.20	16.26	16.32
Module efficiency(%)	23.14	23.32	23.51	23.69	23.88
Maximum system voltage(V)			1500		
Fuse Rating(A)			30		
Temperature coefficient Pmax(%/°C)			-0.30		
Temperature coefficient Isc(%/°C)			0.046		
Temperature coefficient Voc(%/°C)			-0.25		

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

Bifacial Output-Backside Power Gain

10%	Pmax(W)	687.5	693	698.5	704	709.5
	Module efficiency(%)	25.45	25.65	25.86	26.06	26.26
20%	Pmax(W)	750	756	762	768	774
	Module efficiency(%)	27.76	27.99	28.21	28.43	28.65

Working Characteristics

	HY625-N132EDD	HY630-N132EDD	HY635-N132EDD	HY640-N132EDD	HY645-N132EDD
Pmax(W)	476	480	484	488	492
Vmp(V)	38.52	38.66	38.82	38.98	39.15
Imp(A)	12.36	12.42	12.47	12.52	12.57
Voc(V)	46.23	46.38	46.51	46.64	46.77
Isc(A)	12.96	13.01	13.06	13.11	13.16
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	132 pcs
Size of cell (mm)	182*105
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)	2382*1134*30
Weight (kg)	32.5
Cables/connectors	4mm², MC4 compatible
Length of Cable	Portrait: +300mm/ -300mm

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2390*1130*1250
Weight of packing (kg)	1210
Pieces per container	720
Size of container	40' HQ

Maximum Ratings

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

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