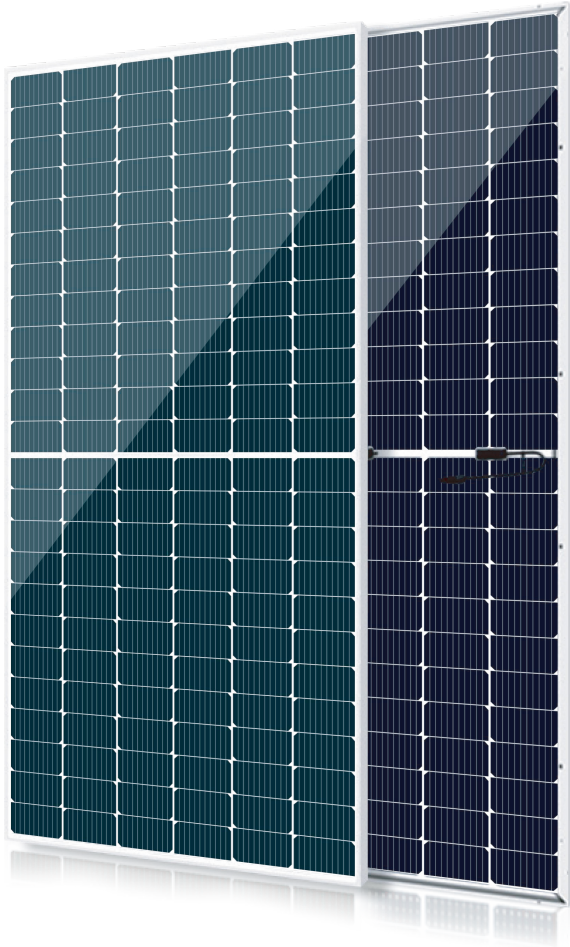
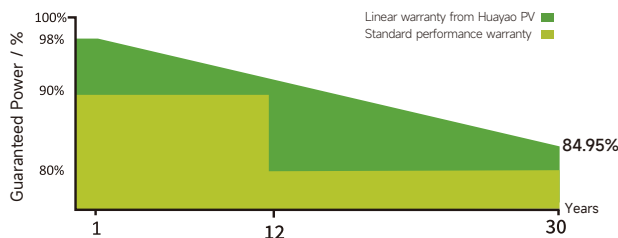


535~555W HY555-M144BDD



LINEAR PERFORMANCE WARRANTY

- 15 Year Product Warranty
- 30 Year Linear Power Warranty



Hyper M72

Bi-facial
144-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

Innovative 182mm big cell applied to ensure module power up to 555 Wp



High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and cell applied to module production



Excellent Low-light Performance

Advanced solar cell surface texturing 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



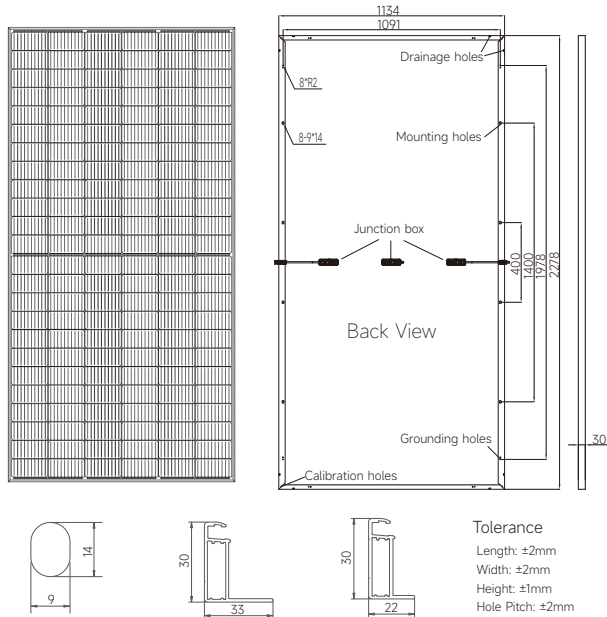
Fire resistance

Class of reaction to Class A

IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



Electrical Characteristics

	HY535-M144BDD	HY540-M144BDD	HY545-M144BDD	HY550-M144BDD	HY555-M144BDD
Pmax(W)	535	540	545	550	555
Vmp(V)	41.90	42.12	42.32	42.59	42.76
Imp(A)	12.77	12.82	12.88	12.92	12.98
Voc (V)	49.96	50.15	50.28	50.47	50.66
Isc(A)	13.55	13.61	13.67	13.73	13.79
Module efficiency(%)	20.71	20.90	21.10	21.29	21.48
Maximum system voltage(V)	1500				
Fuse Rating(A)	25				
Temperature coefficient Pmax(%°C)	-0.350				
Temperature coefficient Isc(%°C)	0.05				
Temperature coefficient Voc(%°C)	-0.275				

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

Bifacial Output-Backside Power Gain

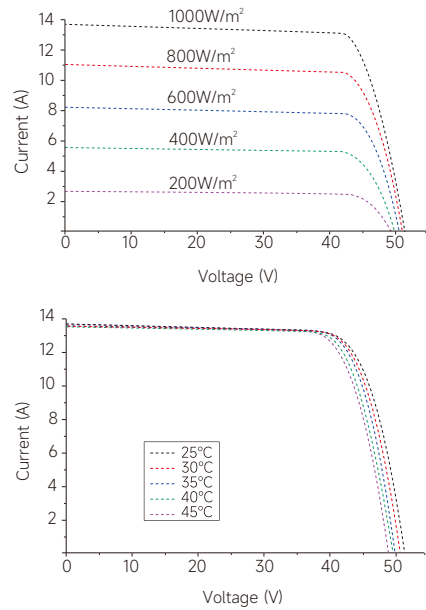
	Pmax(W)	588.5	594	599.5	605	610.5
10%	Module efficiency(%)	22.78	22.99	23.21	23.42	23.63
20%	Pmax(W)	642	648	654	660	666
	Module efficiency(%)	24.85	25.08	25.31	25.55	25.78

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2310*1120*1247
Weight of packing (kg)	1148
Pieces per container	720
Size of container	40' HQ

Revised in Jan 2024 1st Edition
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I-V Curves



Working Characteristics

	HY535-M144BDD	HY540-M144BDD	HY545-M144BDD	HY550-M144BDD	HY555-M144BDD
Pmax(W)	403	407	411	414	418
Vmp(V)	38.70	38.93	39.13	39.30	39.50
Imp(A)	10.42	10.46	10.50	10.54	10.58
Voc(V)	46.95	47.26	47.42	47.52	47.83
Isc(A)	10.94	10.99	11.04	11.08	11.13
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	144 pcs
Size of cell (mm)	182*91
Type of cell	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)	31.0
Cables/connectors	4mm ² , 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

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