

435~455W

AS435-455M6-144B

BIFACIAL MONO PERC

MORE POWER

455W Module power up to 455 W
Module efficiency up to 20.93 %

\$ Up to 8.9 % lower LCOE
Up to 4.6 % lower system cost

↑ Comprehensive LID /LeTID mitigation technology, up to 50% lower degradation

+ Compatible with mainstream trackers, cost effective product for utility power plant

☁ Better shading tolerance

MORE RELIABLE

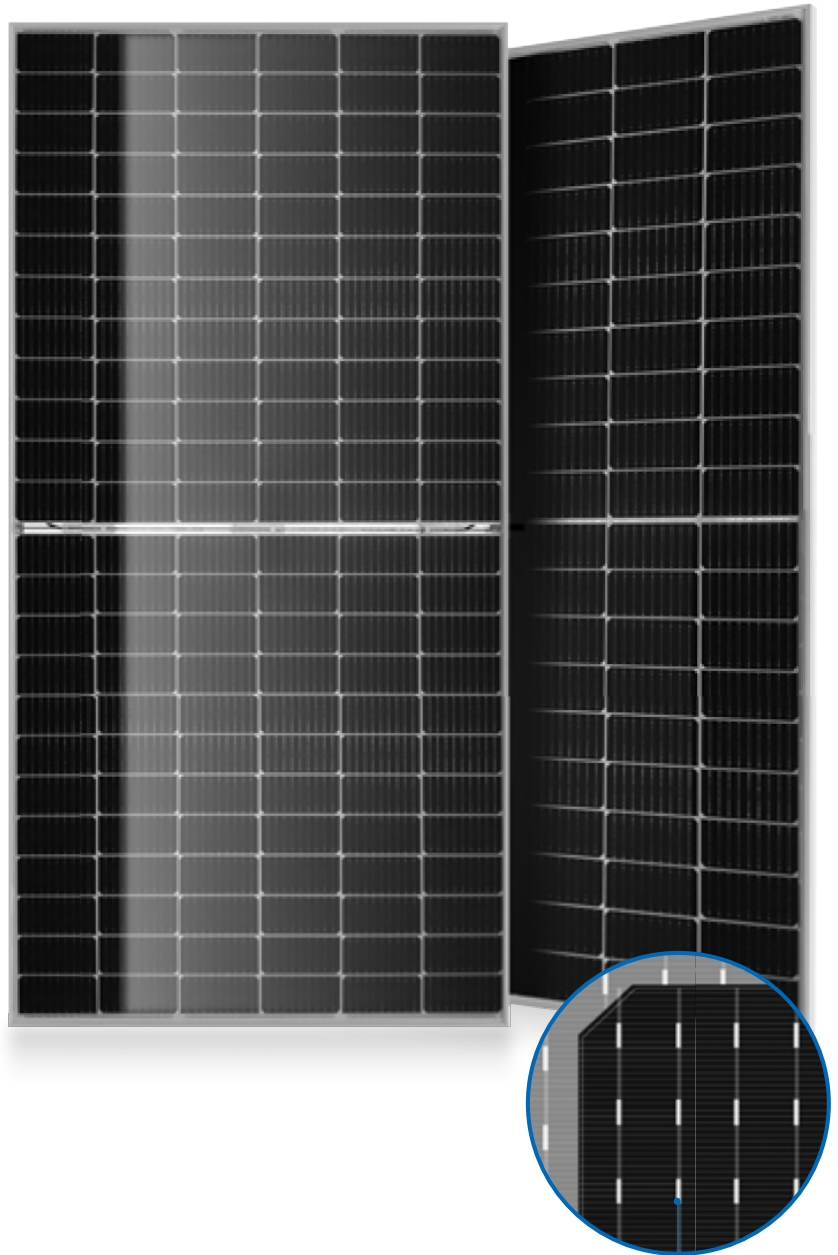
🌡 40 °C lower hot spot temperature, greatly reduce module failure rate

🛡 Minimizes micro-crack impacts

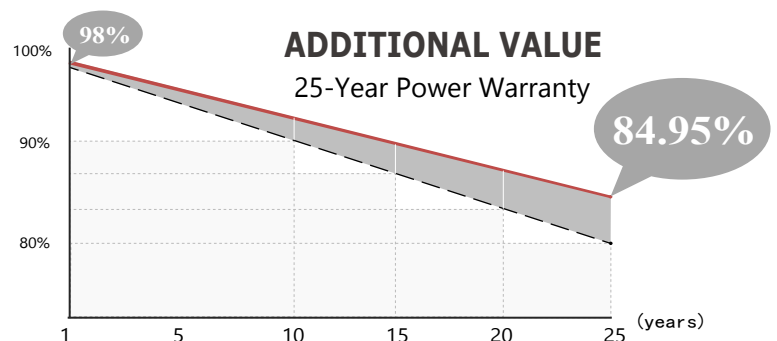
******* Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output



Double-sided cell technology



AS435-455M6-144B

435-455W

Half-Cell High Efficiency PV Module

Weight

28.1kgs±3%

Cells Type

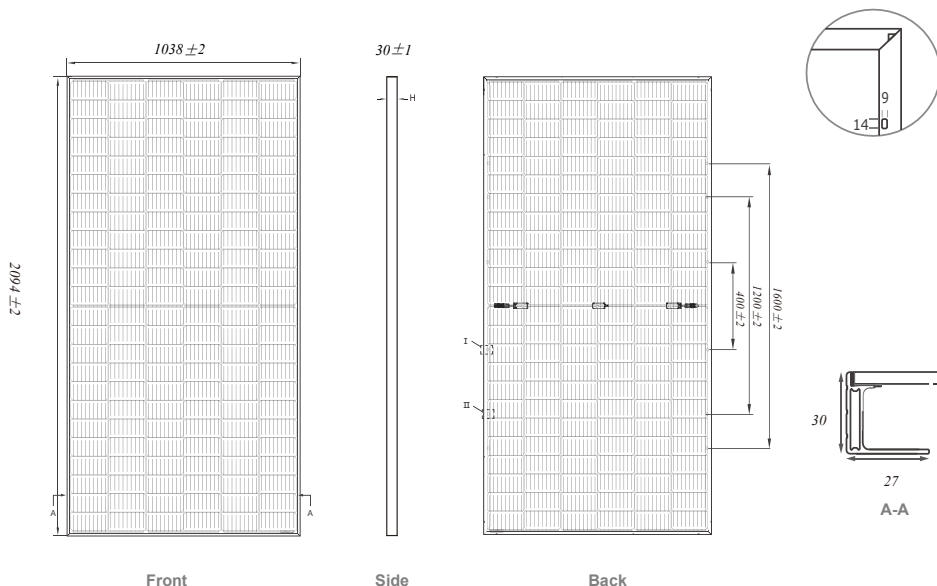
Mono 166×83mm

Dimension (L×W×T)

2094±2mm x1038±2mm x 30±1mm

Packaging

35pcs/pallet, 770pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(6x24)
Cable Length	300mm (+) /300mm (-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS435M6-144B		AS440M6-144B		AS445M6-144B		AS450M6-144B		AS455M6-144B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	435	323.6	440	327.4	445	331.1	450	334.8	455	338.5
Open Circuit Voltage (Voc/V)	48.96	46.13	49.16	46.31	49.36	46.50	49.56	46.69	49.76	46.88
Short Circuit Current (Isc/A)	11.35	9.17	11.42	9.22	11.49	9.28	11.56	9.34	11.63	9.39
Voltage at Maximum Power (Vmp/V)	40.81	37.60	41.01	37.80	41.21	37.99	41.40	38.19	41.59	38.38
Current at Maximum Power (Imp/A)	10.66	8.61	10.73	8.66	10.80	8.71	10.87	8.77	10.94	8.82
Module Efficiency(%)	20.01%		20.24%		20.47%		20.70%		20.93%	

ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS

(REFERENCEDSPECIFICALLY TO 450WP FRONT)

	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	473	495	518	540	563
Pmax Gain(%)	22.07%	23.16%	24.20%	25.24%	25.28%

TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Pmax	-0.350%/°C

I-V CURVE(AS435-455M6-144B)

