



525~545W


AS525-545M10-144B


BIFACIAL MONO PERC


MORE POWER

- 

Module power up to 545 W
Module efficiency up to 21.03 %
- 


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
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Better shading tolerance

MORE RELIABLE

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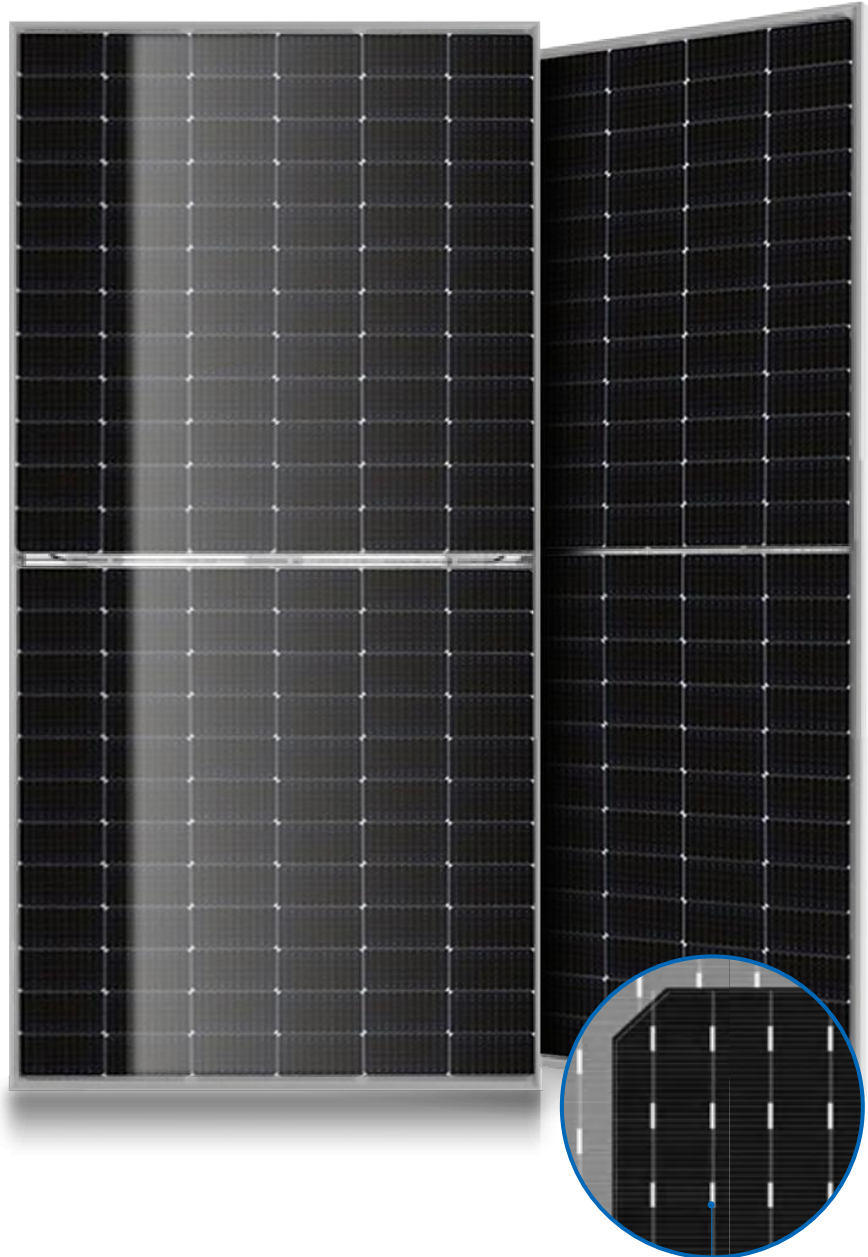
40 °C lower hot spot temperature, greatly reduce module failure rate
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Minimizes micro-crack impacts
- 

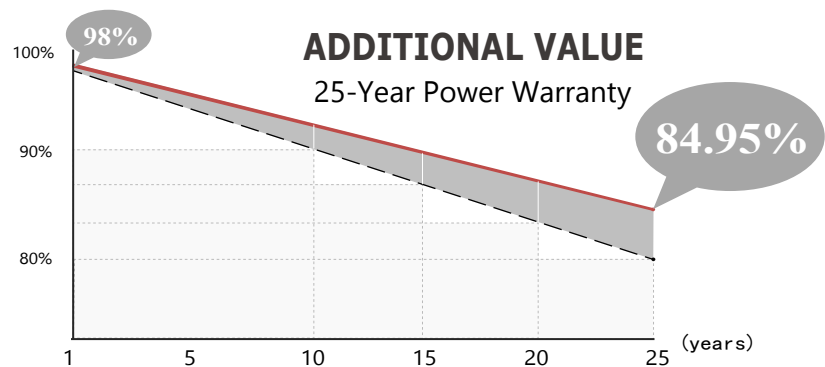
Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output



Double-sided cell technology



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525-545W

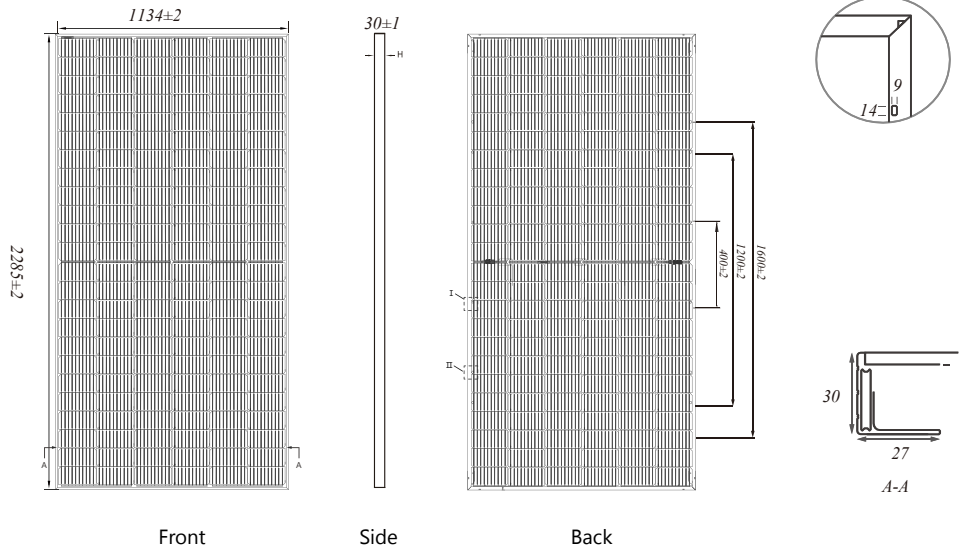
Half-Cell High Efficiency PV Module

Weight
28.0kgs±3%

Cells Type
Mono 182x91mm

Dimension(LxWxT)
2285±2mmx1134±2mmx30±1mm

Packaging
35pcs/pallet, 700pcs/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	1500VDC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	30A
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	AS525M10-144B		AS530M10-144B		AS535M10-144B		AS540M10-144B		AS545M10-144B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	525	390.6	530	394.3	535	398.0	540	401.8	545	405.5
Open Circuit Voltage(Voc/V)	13.64	11.02	13.71	11.07	13.79	11.14	13.87	11.20	13.94	11.26
Short Circuit Current(Isc/A)	49.27	46.51	49.35	46.59	49.42	46.65	49.49	46.72	49.65	46.87
Voltage at Maximum Power(Vmp/V)	40.61	37.58	40.71	37.75	40.81	37.88	40.91	38.02	41.07	38.17
Current at Maximum Power(Imp/A)	12.93	10.39	13.02	10.45	13.11	10.51	13.20	10.57	13.27	10.62
Module Efficiency(%)	20.26		20.45		20.65		20.84		21.03	

ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS

(REFERENCEDSPECIFICALLY TO 540WP FRONT)

Maximum Power(Pmax/W)	5%	10%	15%	20%	25%
Maximum Power(Pmax/W)	572	600	627	654	681
Pmax Gain(%)	22.07%	23.16%	24.20%	25.24%	25.28%

TEMPERATURE RATINGS

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

I-V CURVE(AS525-545M10-144B)

