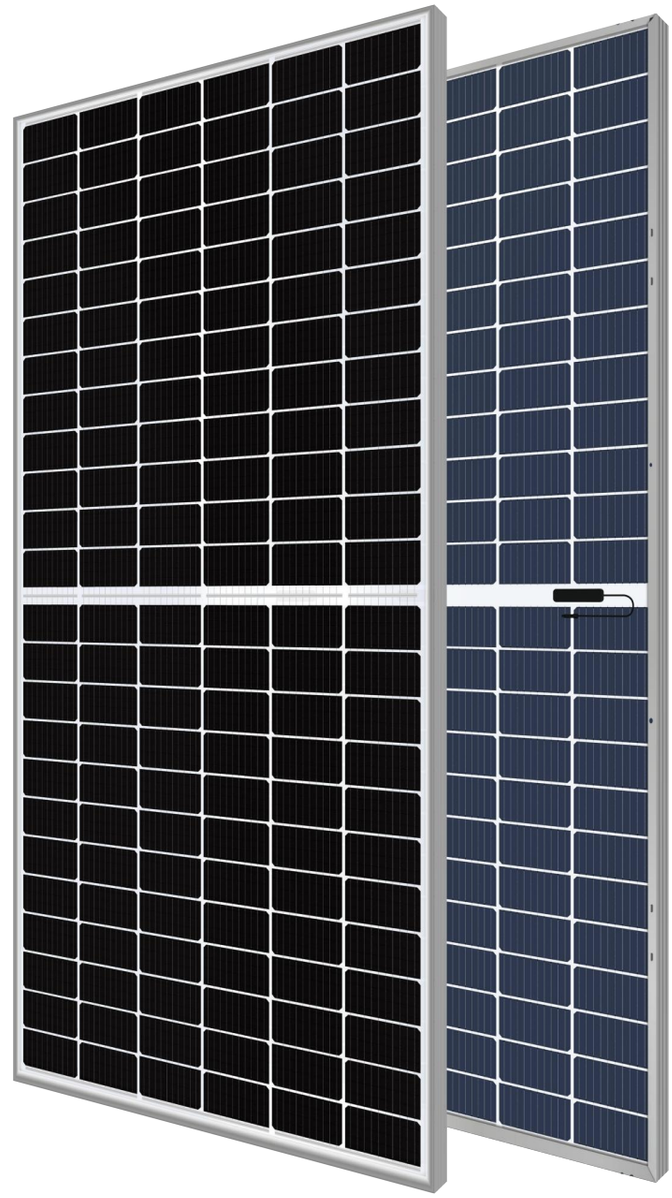
Amosolar Co.,ltd

530~550W

AS530-550M10-144B

BIFACIAL MONO PERC

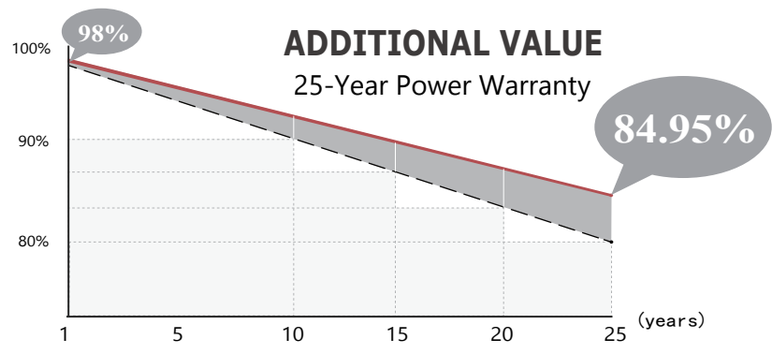


MORE POWER

- Module power up to 550W
  Module efficiency up to 21.28 %
- 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-year Warranty forMaterials and Processing

30-year Warranty forExtra Linear Power Output

Amosolar Co.,ltd

AS530-550M10-144B

530-550W

Half-Cell High Efficiency PV Module

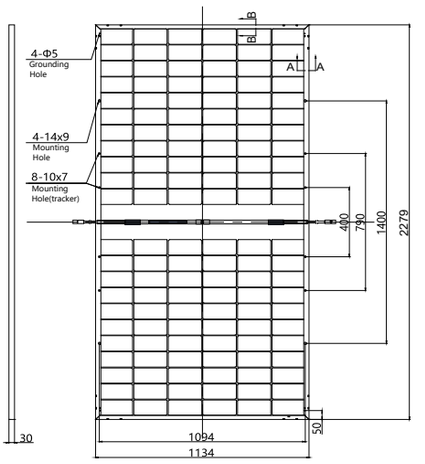
Weight
32.1kgs±3%

Cells Type
Mono 182x91mm

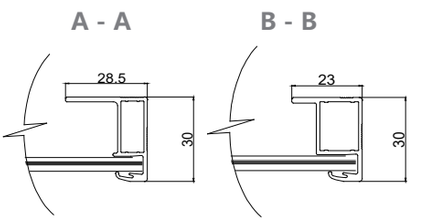
Dimension(LxWxT)
2279±2mmx1134±2mmx30±1mm

Packaging
35pcs/pallet, 700pcs/40HQ container

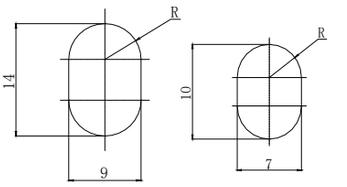
Rear View



Frame Cross Section A-A



Mounting Hole



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(6x24)
Cable Length	410mm(+)/290mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

ELECTRICAL CHARACTERISTICS

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

Module Type	AS530M10-144B		AS535M10-144B		AS540M10-144B		AS545M10-144B		AS550M10-144B	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	530	397	535	401	540	405	545	409	550	412
Open Circuit Voltage(Voc/V)	48.80	46.10	49.00	46.30	49.20	46.50	49.40	46.70	49.60	46.90
Short Circuit Current(Isc/A)	13.80	11.13	13.85	11.17	13.90	11.21	13.95	11.25	14.00	11.29
Voltage at Maximum Power(Vmp/V)	40.90	38.30	41.10	38.50	41.30	38.70	41.50	38.90	41.70	39.10
Current at Maximum Power(Imp/A)	12.96	10.38	13.02	10.42	13.08	10.47	13.14	10.52	13.20	10.55
Module Efficiency(%)	20.50		20.70		20.90		21.09		21.28	

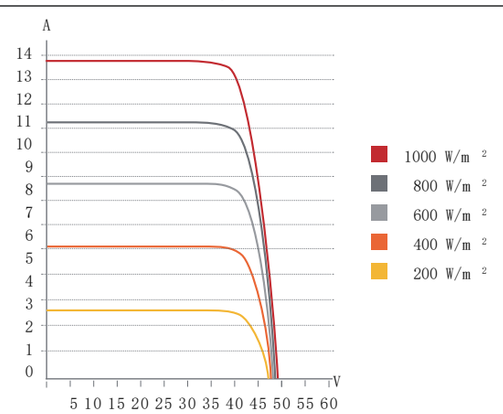
ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS

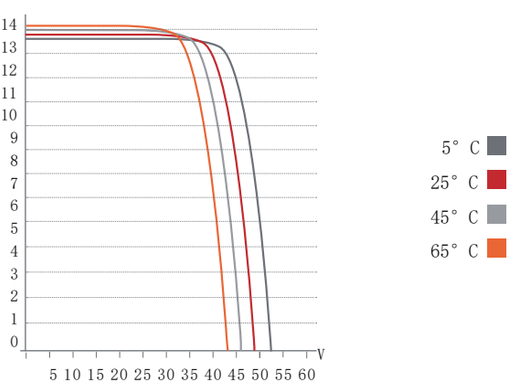
5%	Maximum Power(Pmax/W)	557	562	567	572	578
	Module Efficiency (%)	21.5%	21.7%	21.9%	22.1%	22.3%
10%	Maximum Power(Pmax/W)	583	589	594	600	605
	Module Efficiency (%)	22.6%	22.8%	23.0%	23.2%	23.4%
20%	Maximum Power(Pmax/W)	636	642	648	654	660
	Module Efficiency (%)	24.6%	24.8%	25.0%	25.3%	25.6%

TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	41±3℃
Temperature Coefficiency of Isc	+0.05%/℃
Temperature Coefficiency of Voc	-0.26%/℃
Temperature Coefficiency of Pmax	-0.34%/℃

I-V CURVE(AS30-550M10-144B)





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