

440~465W

AS440-465M10-120

MORE POWER

UP TO 21.47% Maximize the light absorption area, module efficiency up to 21.47%.

Low temperature coefficient (Pmax): -0.35 % /°C.

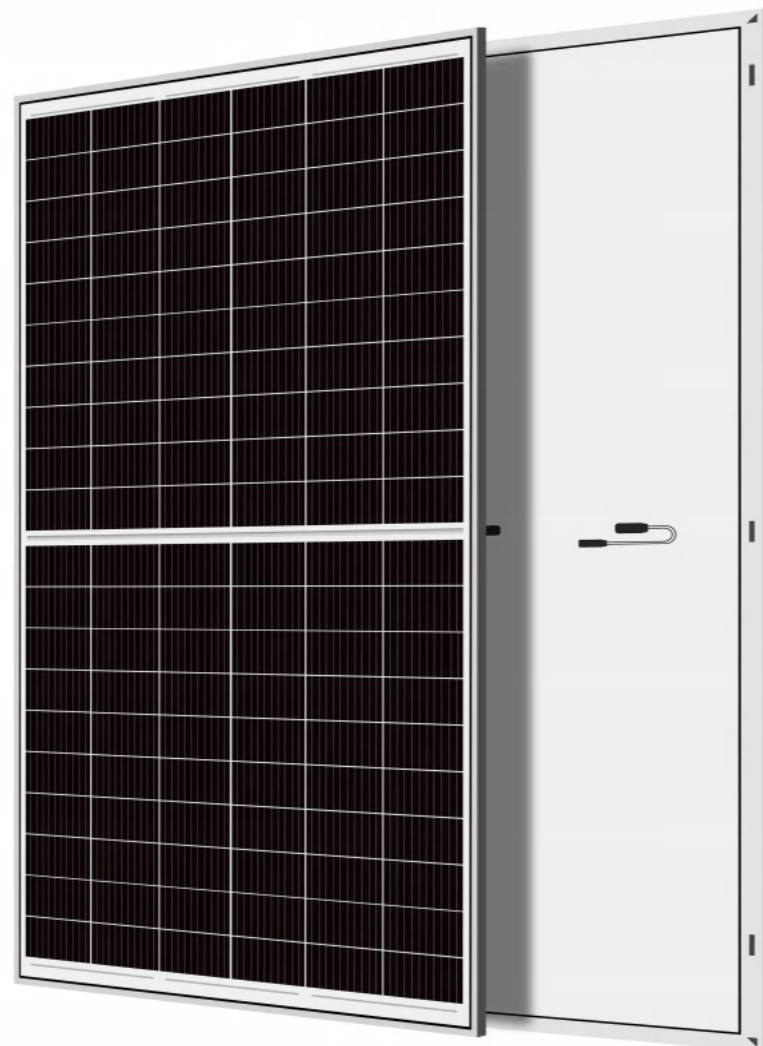
Better shading tolerance.

MORE RELIABLE

Lower internal current, lower hot spot temperature.

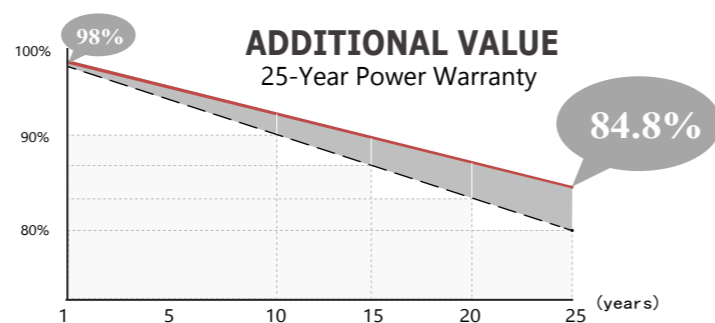
Cell crack risk limited in small region, enhance the module reliability.

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



12 12-year Product Warranty

25 25-year Linear Performance Warranty



440-465W

Monofacial Half-Cell PV Module

Weight

23.0kgs±3%

Cells Type

Mono 182x91mm

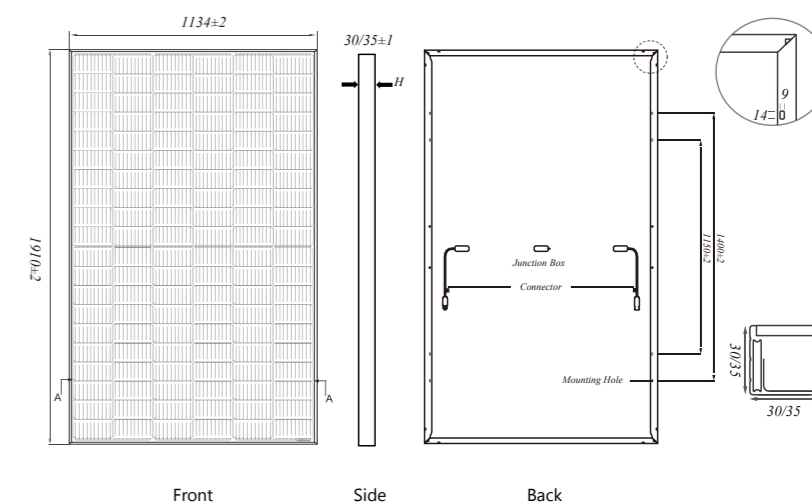
Dimension(LxWxT)

1910±2mmx1134±2mmx30/35±1mm

Packaging

36pcs/pallet, 864pcs/40HQ container(30mm)

31pcs/pallet, 744pcs/40HQ container(35mm)



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	120(6x20)
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

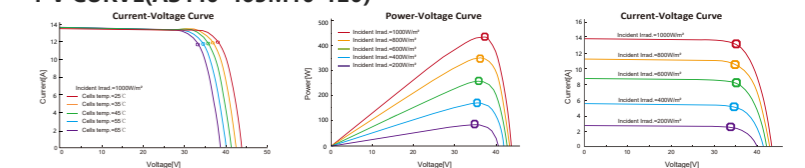
STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS440M10-120		AS445M10-120		AS450M10-120		AS455M10-120		AS460M10-120		AS465M10-120	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	440	331.5	445	335.2	450	339	455	342.8	460	346.7	465	350.6
Open Circuit Voltage(Voc/V)	43.24	38.31	43.36	38.45	43.48	38.59	43.60	38.73	43.72	38.87	43.84	39.01
Short Circuit Current(Isc/A)	13.18	10.82	13.24	10.91	13.30	10.99	13.36	11.07	13.42	11.15	13.48	11.23
Voltage at Maximum Power(Vmp/V)	34.70	32.30	34.90	32.41	35.10	32.53	35.30	32.65	35.50	32.77	35.70	32.89
Current at Maximum Power(Imp/A)	12.70	10.26	12.77	10.34	12.83	10.42	12.91	10.50	12.97	10.58	13.03	10.66
Module Efficiency(%)	20.31		20.55		20.78		21.01		21.24		21.47	

TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.350%/°C

I-V CURVE(AS440-465M10-120)



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The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Amosolar reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.