



# 435~455M

AS435-455BM10-120 FULL BLACK

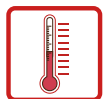
## MORE POWER


**UP TO 21.02%** Maximize the light absorption area, module efficiency up to 21.02 %.


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

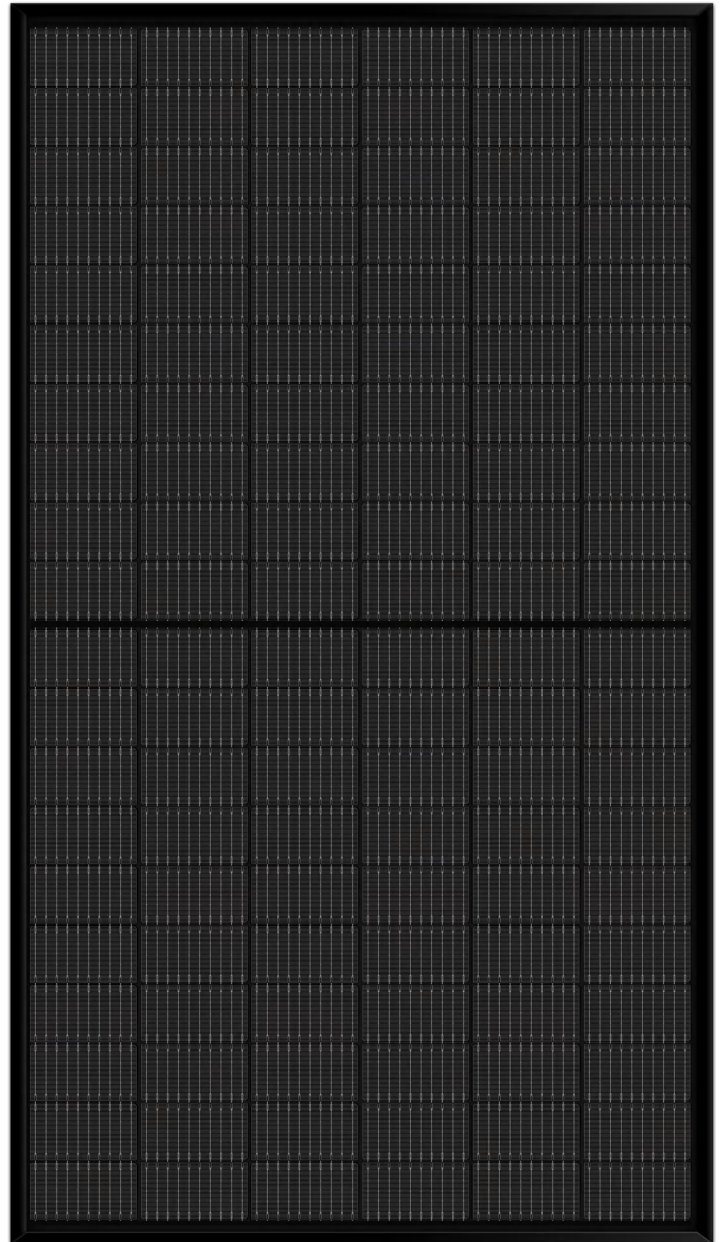
 Better shading tolerance.


## MORE RELIABLE


 Lower internal current, lower hot spot temperature.

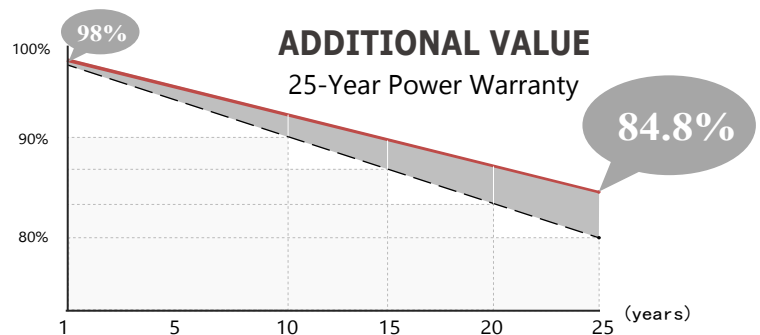
 Cell crack risk limited in small region, enhance the module reliability.

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



 **12** 12-year Product Warranty

 **25** 25-year Linear Performance Warranty



AS435-455BM10-120

# 435-455W

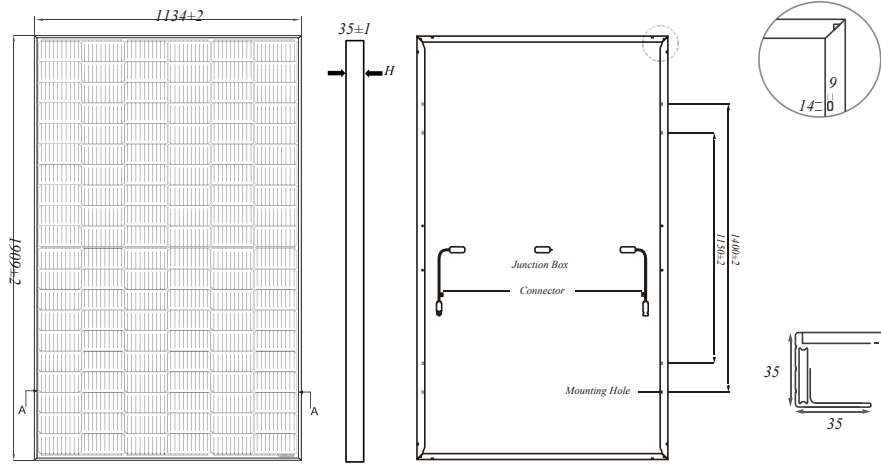
Half-Cell High Efficiency PV Module

**Weight**  
24.0kgs±3%

**Cells Type**  
Mono 182x91mm

**Dimension(LxWxT)**  
1909±2mmx1134±2mmx35±1mm

**Packaging**  
31pcs/pallet, 744pcs/40HQ container



Front Side Back

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 <sup>2</sup> (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

### OPERATING PARAMETERS

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

### ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS435BM10-120		AS440BM10-120		AS445BM10-120		AS450BM10-120		AS455BM10-120	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	435	327.7	440	331.5	445	335.2	450	339	455	342.8
Open Circuit Voltage(Voc/V)	40.80	38.17	40.95	38.31	41.10	38.45	41.25	38.59	41.40	38.73
Short Circuit Current(Isc/A)	13.34	10.77	13.41	10.82	13.52	10.91	13.62	10.99	13.72	11.07
Voltage at Maximum Power(Vmp/V)	33.76	32.11	33.91	32.30	34.06	32.41	34.21	32.53	34.36	32.65
Current at Maximum Power(Imp/A)	12.89	10.21	12.98	10.26	13.07	10.34	13.16	10.42	13.25	10.50
Module Efficiency(%)	20.09		20.33		20.56		20.79		21.02	

### TEMPERATURE RATINGS

Norminal 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(AS435-455BM10-120)

