

# 440~465W

AS440-465M10-120 FULL BLACK

## 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

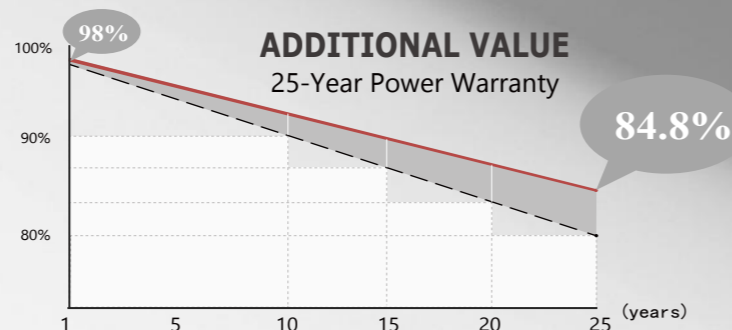
**Lower internal current, lower hot spot temperature.**

**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

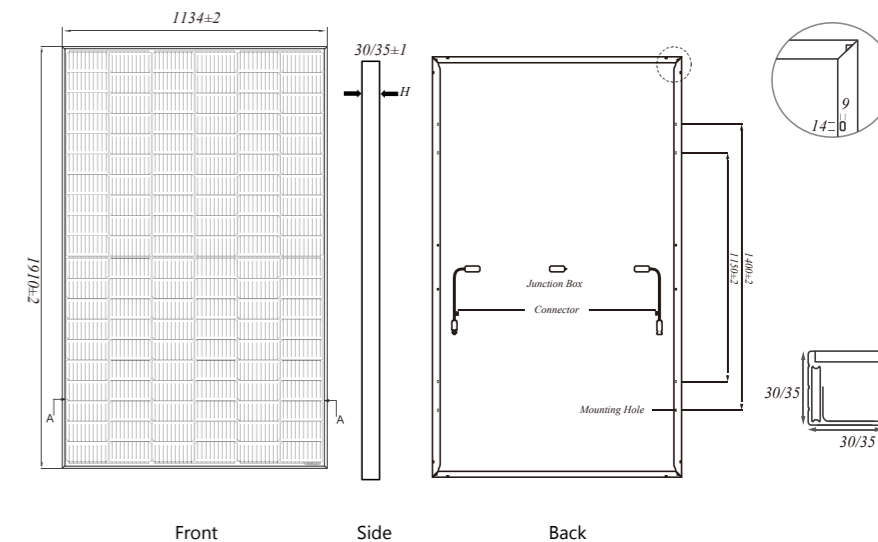
Full Black Half-Cell PV Module

**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 <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	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	ClassII

### 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	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)

