



440~460W

AS440-460M10-120

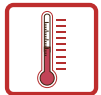
MORE POWER


UP TO 21.25% Maximize the light absorption area, module efficiency up to 21.25%.


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

 Better shading tolerance.


MORE RELIABLE


 Lower internal current, lower hot spot temperature.

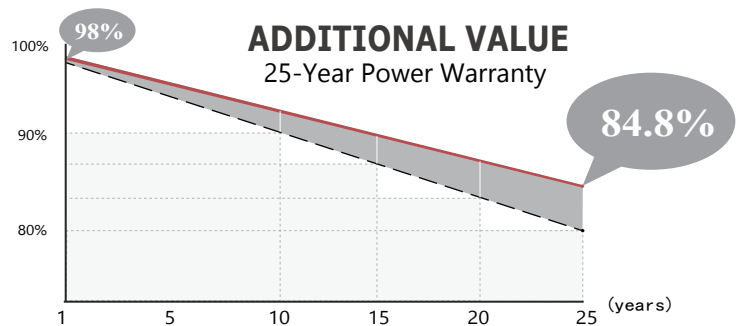
 Cell crack risk limited in small region, enhance the module reliability.

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



 **12** 12-year Product Warranty

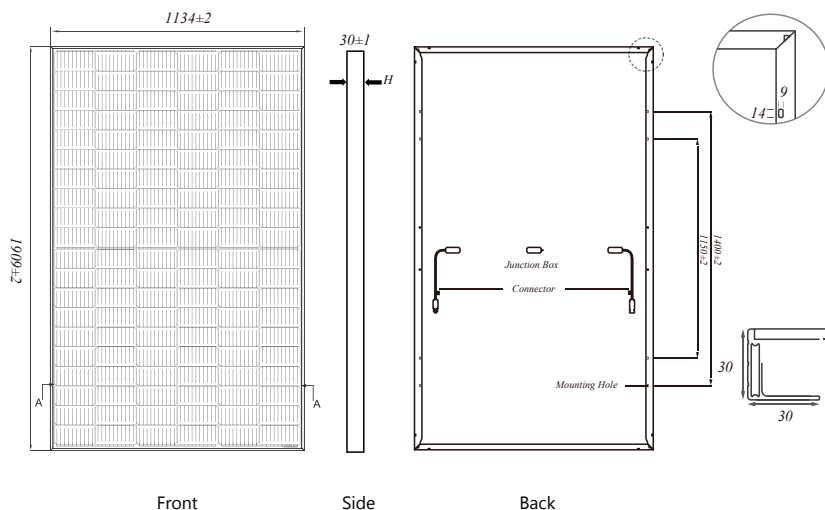
 **25** 25-year Linear Performance Warranty



AS440-460M10-120

440-460W

Half-Cell High Efficiency PV Module

Weight
24.0kgs±3%
Cells Type
Mono 182x91mm
Dimension(LxWxT)
1909±2mmx1134±2mmx30±1mm
Packaging
3⁶ pcs/pallet, 864pcs/40HQ container


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	25A
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	
	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
Open Circuit Voltage(Voc/V)	40.95	38.31	41.10	38.45	41.25	38.59	41.40	38.73	41.48	38.87
Short Circuit Current(Isc/A)	13.41	10.82	13.52	10.91	13.62	10.99	13.72	11.07	14.01	11.15
Voltage at Maximum Power(Vmp/V)	33.91	32.30	34.06	32.41	34.21	32.53	34.36	32.65	34.2	32.77
Current at Maximum Power(Imp/A)	12.98	10.26	13.07	10.34	13.16	10.42	13.25	10.50	13.45	10.58
Module Efficiency(%)	20.09		20.33		20.56		20.79		21.25	

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(AS440-460M10-120)
