

# 440~465W

AS440-465M6-144 FULL BLACK

## MORE POWER

**UP TO 21.39%** Maximize the light absorption area, module efficiency up to 21.39 %.

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

Better shading tolerance.

## MORE RELIABLE

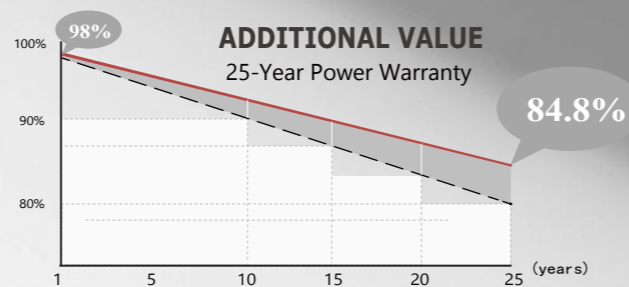
Lower internal current, lower hot spot temperature.

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-year Product Warranty

25-year Linear Performance Warranty



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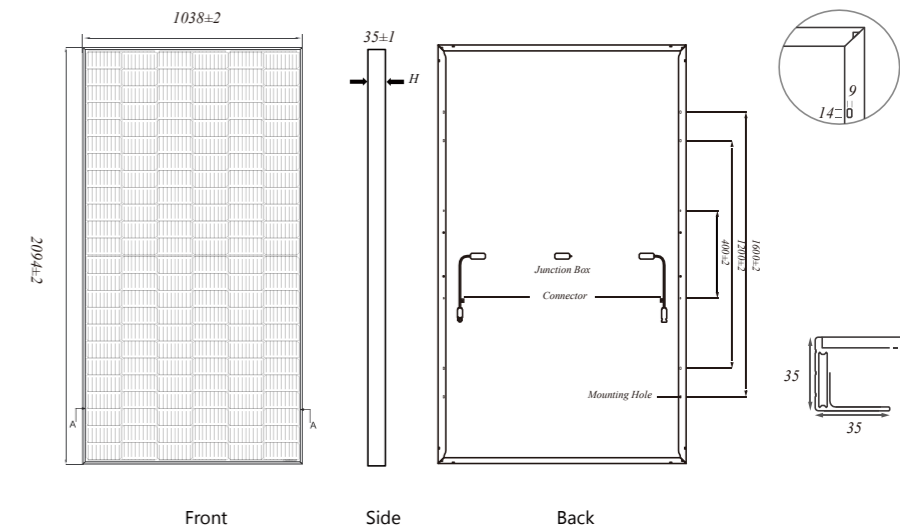
Full Black Half-Cell PV Module

**Weight**  
23.0kg±3%

**Cells Type**  
Mono 166x83mm

**Dimension(LxWxT)**  
2094±2mmx1038±2mmx35±1mm

**Packaging**  
31pcs/pallet, 726pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	Mono	Maximum System Voltage	1500VDC
No.of cells	144(6x24)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	30A
Cable Cross Section Size	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Junction Box	IP67,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Connector	MC4 Compatible	Safety Class	ClassII

ELECTRICAL CHARACTERISTICS	STC:AM1.5 1000W/m² 25 °C		NOCT:AM1.5 800W/m² 20 °C 1m/s		Test uncertainty for Pmax ±3%							
	AS440M6-144	AS445M6-144	AS450M6-144	AS455M6-144	AS460M6-144	AS465M6-144	STC	NOCT	STC	NOCT		
Module Type	AS440M6-144	AS445M6-144	AS450M6-144	AS455M6-144	AS460M6-144	AS465M6-144						
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	440	333	445	336	450	340	455	344	460	348	465	352
Open Circuit Voltage(Voc/V)	48.45	46.40	48.60	46.65	48.75	46.90	48.90	47.15	49.05	47.38	49.20	47.61
Short Circuit Current(Isc/A)	11.22	9.16	11.28	9.20	11.34	9.25	11.40	9.29	11.46	9.33	11.52	9.38
Voltage at Maximum Power(Vmp/V)	41.68	38.70	41.86	38.95	42.04	39.19	42.22	39.44	42.40	39.68	42.58	39.90
Current at Maximum Power(Imp/A)	10.56	8.60	10.64	8.64	10.71	8.68	10.78	8.72	10.85	8.76	10.92	8.81
Module Efficiency(%)	20.24		20.47		20.70		20.93		21.16		21.39	

TEMPERATURE RATINGS	
Norminal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.044%/ °C
Temperature Coefficient of Voc	-0.272%/ °C
Temperature Coefficient of Pmax	-0.350%/ °C

