440~465W

AS440-465M6-144

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

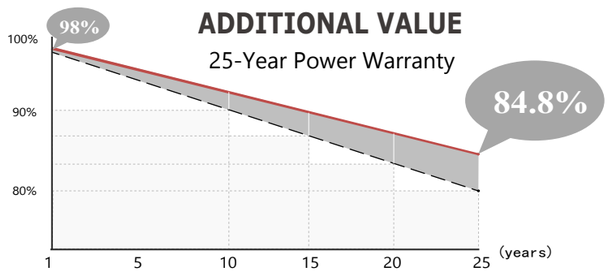
Lower internal current, lower hot spot temperature.

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 — 12-year Product Warranty

25 — 25-year Linear Performance Warranty



Amosolar Co.,ltd

440-465W

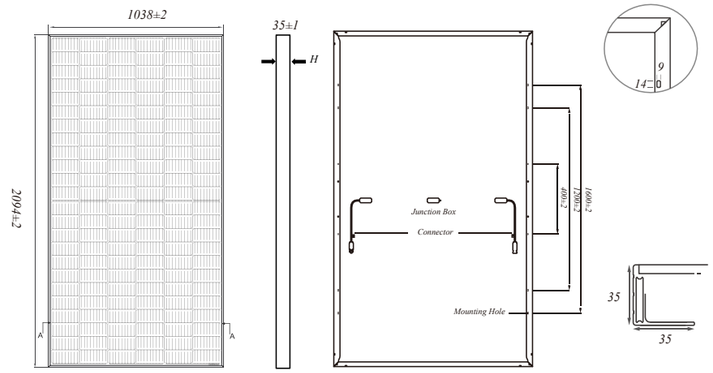
Monofacial Half-Cell PV Module

Weight
23.0kgs±3%

Cells Type
Mono 166x83mm

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

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



Front Side Back

Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION	
Cell	Mono
No.of cells	144(6x24)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP67,3 diodes
Connector	MC4 Compatible

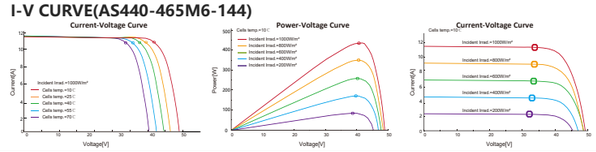
OPERATING PARAMETERS	
Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

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

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	11.45	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℃
Temperature Coefficient of Isc	+0.044%/℃
Temperature Coefficient of Voc	-0.272%/℃
Temperature Coefficient of Pmax	-0.350%/℃

I-V CURVE(AS440-465M6-144)



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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.