

Supplied by

JOG International Ltd.

AS-7M120-BHC 435W~455W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- More power gains up to 30% by utilizing the ambient light reflected from surrounding surfaces.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- Superior performance under high temperature and low light conditions.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc.).
- Potential induced degradation (PID) free.

CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty





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Module Type	AS-7M120-BHC-435W	AS-7M120-BHC-440W	AS-7M120-BHC-445W	AS-7M120-BHC-450W	AS-7M120-BHC-455W	
Maximum Power (Pmax)	435	440	445	450	455	
Open Circuit Voltage (VOC)	40.8	41.0	41.2	41.4	41.6	
Short Circuit Current (ISC)	13.65	13.70	13.75	13.80	13.85	
Voltage at Maximum Power (Vmp)	34.0	34.2	34.4	34.6	34.8	
Current at Maximum Power (Imp)	12.80	12.87	12.94	13.01	13.08	
Module Efficiency (%)	20.06	20.29	20.52	20.75	20.99	
Operating Temperature		-40°C to +85°C				
Maximum System Voltage		1000V DC/1500V DC				
Fire Resistance Rating		Class C				
Maximum Series Fuse Rating		30A				

ELECTRICAL CHARACTERISTICS AT NOCT**					
Maximum Power (Pmax)	324	328	332	336	340
Open Circuit Voltage (VOC)	37.6	37.8	38.0	38.2	38.4
Short Circuit Current (ISC)	11.06	11.10	11.14	11.18	11.22
Voltage at Maximum Power (Vmp)	30.9	31.1	31.3	31.5	31.7
Current at Maximum Power (Imp)	10.49	10.55	10.61	10.67	10.73
NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 m/s					

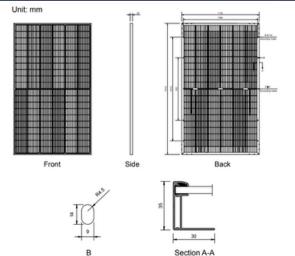
temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-7M120-BHC-445W)

Power Gain	Pmax	VOC	ISC	Vmp	Imp	
10%	490	41.2	14.99	34.4	14.25	
15%	512	41.2	15.67	34.4	14.89	
20%	534	41.2	16.34	34.4	15.53	
25%	556	41.2	17.01	34.4	16.17	
30%	579	41.2	17.72	34.4	16.84	

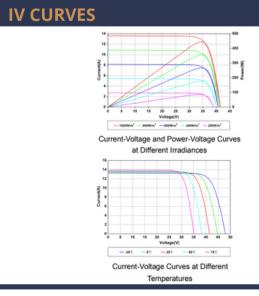
MECHANICAL C	CHARACTERISTICS
Cell Type	Monocrystalline bifacial
Number of cells	120 (6x24
Module dimensions	1912x1134x35mm
Weight	24kg
Front cover	3.2mm tempered glass with AR coating
Back cover	Transparent backsheet
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm2 , Length: Portrait: 300mm; Landscape: 1200mm
Connector	MC4 compatible

ENGINEERING DRAWINGS



TEMPERATURE COEFFICIENT				
Nominal Operating Cell Temperature (NOCT)	42°C±2°C			
Temperature Coefficients of Pmax	-0.36%/°C			
Temperature Coefficients of VOC	-0.28%/°C			
Temperature Coefficients of ISC	0.05%/°C			
PACKAGING				

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Standard packaging	31pcs/pallet
Module quantity per 20' container	186pcs
Module quantity per 40' container	744pcs(HQ)



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