



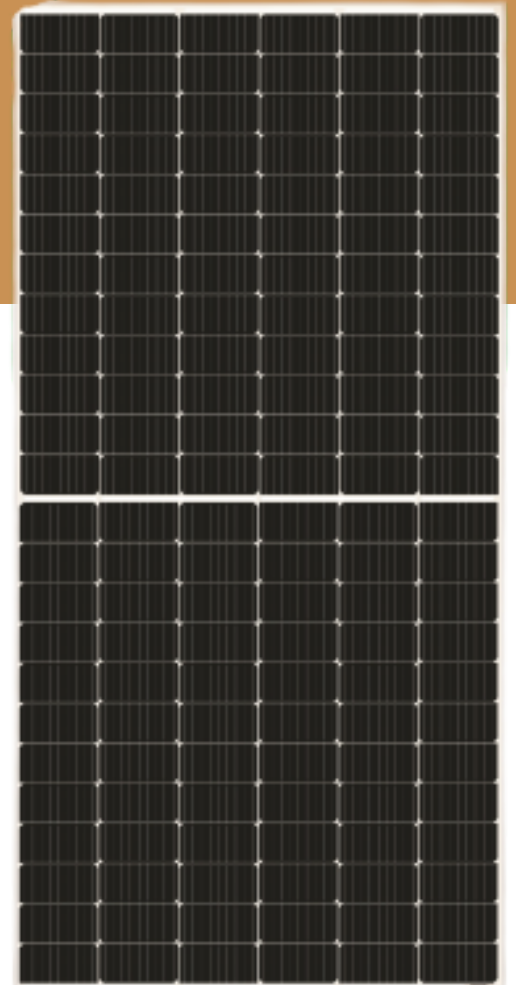
Supplied by



AS-6M144-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.

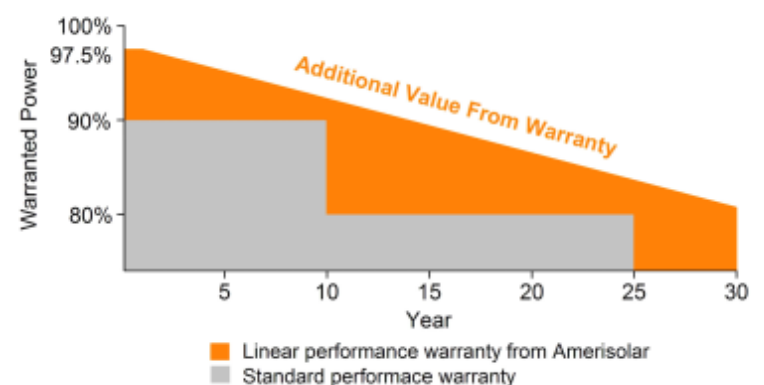
CERTIFICATIONS

- 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



ELECTRICAL CHARACTERISTICS AT STC*

Module Type	AS-6M144-BHC-435W	AS-6M144-BHC-440W	AS-6M144-BHC-445W	AS-6M144-BHC-450W	AS-6M144-BHC-455W
Maximum Power (Pmax)	435	440	445	450	455
Open Circuit Voltage (VOC)	49.6	49.8	50.0	50.2	50.4
Short Circuit Current (ISC)	11.10	11.16	11.22	11.28	11.34
Voltage at Maximum Power (Vmp)	41.2	41.4	41.6	41.8	42.0
Current at Maximum Power (Imp)	10.56	10.63	10.70	10.77	10.84
Module Efficiency (%)	19.90	20.13	20.36	20.58	20.81
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Class C				
Maximum Series Fuse Rating	25A				

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**

Maximum Power (Pmax)	319	323	327	331	335
Open Circuit Voltage (VOC)	45.4	45.6	45.8	46.0	46.2
Short Circuit Current (ISC)	8.94	8.99	9.04	9.09	9.14
Voltage at Maximum Power (Vmp)	37.2	37.4	37.6	37.8	38.0
Current at Maximum Power (Imp)	8.58	8.64	8.70	8.76	8.82

**NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-6M144-BHC-450W)

Power Gain	Pmax	VOC	ISC	Vmp	Imp
10%	495	50.2	12.42	41.8	11.85
15%	518	50.2	13.00	41.8	12.40
20%	540	50.2	13.55	41.8	12.92
25%	563	50.2	14.12	41.8	13.47
30%	585	50.2	14.68	41.8	14.00

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline bifacial
Number of cells	144 (6x24)
Module dimensions	2102x1040x35mm
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	4mm ² , Length: Portrait: 300mm; Landscape: 1400mm
Connector	MC4 compatible

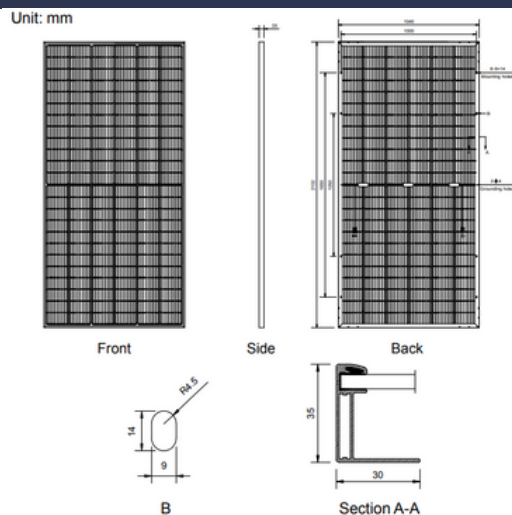
TEMPERATURE COEFFICIENT

Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of Pmax	-0.36%/°C
Temperature Coefficients of VOC	-0.30%/°C
Temperature Coefficients of ISC	0.05%/°C

PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 20' container	155pcs
Module quantity per 40' container	715pcs(HQ)

ENGINEERING DRAWINGS



IV CURVES

