

AS-6M144-HC 430W~450W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 20.37% by using innovative Halfcell design and Multi-busbar(MBB) cell technology
- 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) resistance.

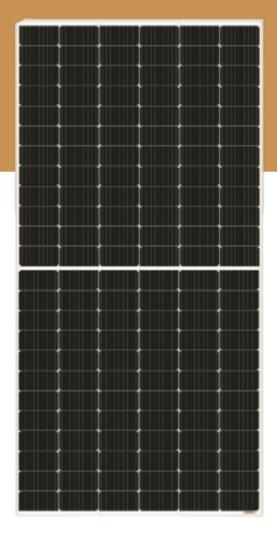
CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, 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 CHARACTERIS	TICS AT STC*				
Maximum Power (Pmax)	430	435	440	445	450
Open Circuit Voltage (VOC)	49.4	49.6	49.8	50.0	50.2
Short Circuit Current (ISC)	11.04	11.10	11.16	11.22	11.28
Voltage at Maximum Power (Vmp)	41.0	41.2	41.4	41.6	41.8
Current at Maximum Power (Imp)	10.49	10.56	10.63	10.70	10.77
Module Efficiency (%)	19.46	19.69	19.92	20.14	20.37
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)				
Maximum Series Fuse Rating	20A				

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

ELECTRICAL CHARACTERIS	TICS 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

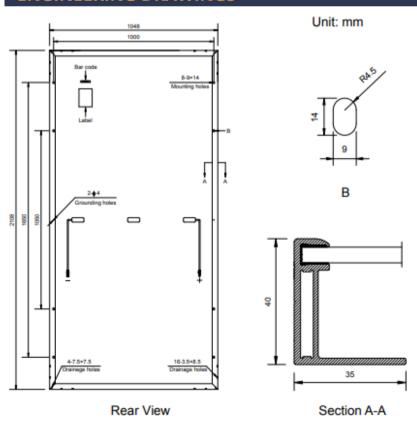
NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 m/s

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MECHANICAL CHARACTERISTICS		
Cell Type	Monocrystalline PERC 166*83mm	
Number of cells	144 (6x24)	
Module dimensions	2108x1048x40mm (82.99x41.26x1.57inches)	
Weight	24kg (52.9lbs)	
Front cover	3.2mm (0.13inches) tempered glass with AR coating	
Frame	Anodized aluminum alloy	
Junction box	IP68, 3 diodes	
Cable	4mm2 (0.006inches2), Length: Portrait: 300mm (11.81inches); Landscape: 1400mm (55.12inches)	
Connector	MC4 or MC4 compatible	

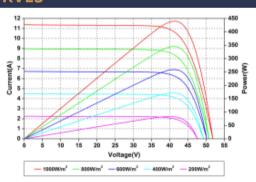
TEMPERATURE COEFFICIENT			
Nominal Operating Cell Temperature (NOCT)	43°C±2°C		
Temperature Coefficients of Pmax	-0.36%/°C		
Temperature Coefficients of VOC	-0.28%/°C		
Temperature Coefficients of ISC	0.05%/°C		

PACKAGING	
Standard packaging	27pcs/pallet
Module quantity per 20' container	135pcs
Module quantity per 40' container	594pcs

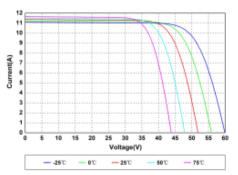
ENGINEERING DRAWINGS



IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures