



by AS

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Energía solar para tu hogar y empresa

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Eficiencia Máxima:

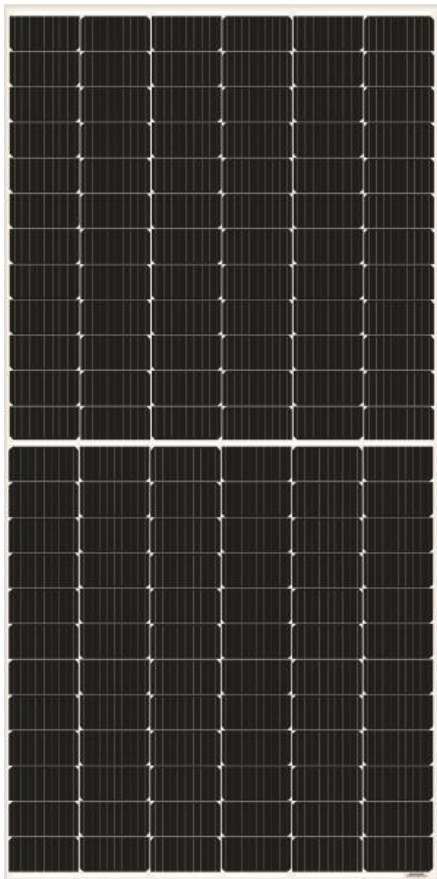
20.58%

Potencia de salida:

435W-465W

EAS-6M144-HC-450

144 Celdas Monocristalino PERC Módulo Solar



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

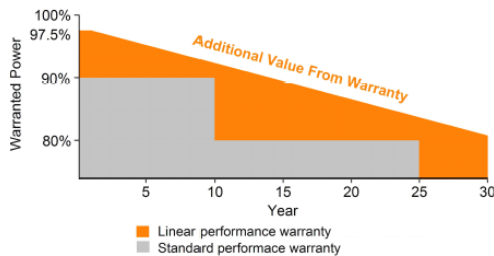
- High module conversion efficiency up to 21.27% through innovative Half-cell design and Multi-busbar (MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

### CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC
- ISO 9001:2015: Quality management system
- ISO 14001:2015: 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							
Maximum Power ( $P_{max}$ )	435W	440W	445W	450W	455W	460W	465W
Open Circuit Voltage ( $V_{oc}$ )	49.6V	49.8V	50.0V	50.2V	50.4V	50.6V	50.8V
Short Circuit Current ( $I_{sc}$ )	11.10A	11.16A	11.22A	11.28A	11.34A	11.40A	11.46A
Voltage at Maximum Power ( $V_{mp}$ )	41.2V	41.4V	41.6V	41.8V	42.0V	42.2V	42.4V
Current at Maximum Power ( $I_{mp}$ )	10.56A	10.63A	10.70A	10.77A	10.84A	10.91A	10.97A
Module Efficiency (%)	19.90	20.13	20.36	20.58	20.81	21.04	21.27
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/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT							
Maximum Power ( $P_{max}$ )	323W	327W	331W	335W	339W	343W	347W
Open Circuit Voltage ( $V_{oc}$ )	45.6V	45.8V	46.0V	46.2V	46.4V	46.6V	46.8V
Short Circuit Current ( $I_{sc}$ )	8.99A	9.04A	9.09A	9.14A	9.19A	9.24A	9.29A
Voltage at Maximum Power ( $V_{mp}$ )	37.4V	37.6V	37.8V	38.0V	38.2V	38.4V	38.6V
Current at Maximum Power ( $I_{mp}$ )	8.64A	8.70A	8.76A	8.82A	8.88A	8.94A	8.99A

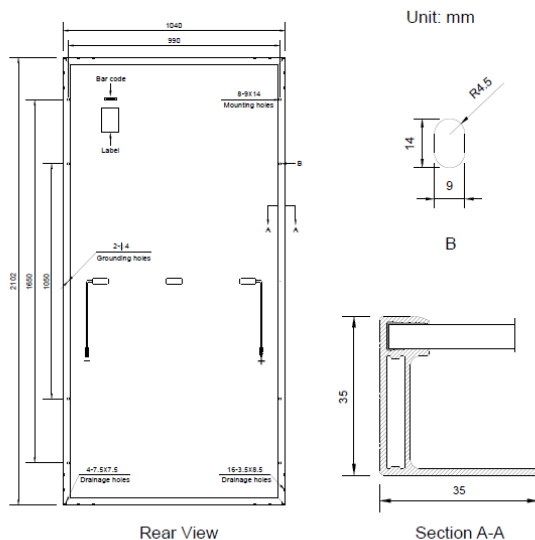
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS	
Cell type	Monocrystalline PERC 166*83mm
Number of cells	144 (6x24)
Module dimensions	2102x1040x35mm (82.76x40.94x1.38inches)
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	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Length: Portrait: 300mm (11.81inches); Landscape: 1400mm (55.12inches)
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS	
Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of $P_{max}$	-0.36%/°C
Temperature Coefficients of $V_{oc}$	-0.28%/°C
Temperature Coefficients of $I_{sc}$	0.05%/°C

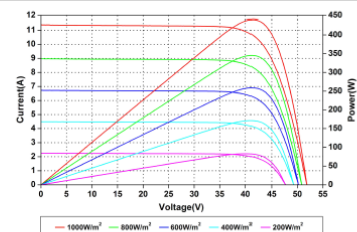
PACKAGING	
Standard packaging	31pcs/pallet
Module quantity per 20' container	155pcs
Module quantity per 40' container	682pcs

### ENGINEERING DRAWINGS

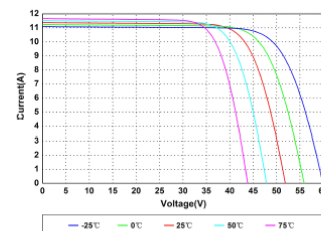


Specifications in this datasheet are subject to change without prior notice.

### IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures