

AS-6M-HCB

400W~410W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 20.4% by using innovative Half-cell design and Passivated Emitter Rear Cell (PERC) 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.
- Positive power tolerance of 0 ~ +3 %.

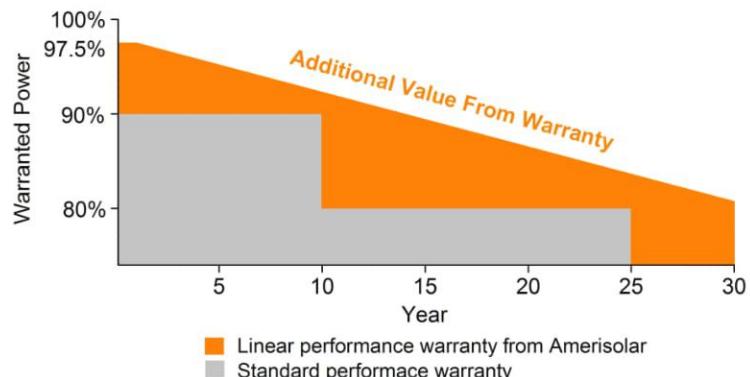
CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- 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

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	400W	405W	410W
Open Circuit Voltage (V_{oc})	48.7V	49.0V	49.1V
Short Circuit Current (I_{sc})	10.79A	10.83A	10.87A
Voltage at Maximum Power (V_{mp})	40.7V	41.0V	41.3V
Current at Maximum Power (I_{mp})	9.84A	9.88A	9.93A
Module Efficiency (%)	19.9	20.1	20.4
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	15A		

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	300W	304W	308W
Open Circuit Voltage (V_{oc})	44.8V	45.1V	45.4V
Short Circuit Current (I_{sc})	8.74A	8.77A	8.80A
Voltage at Maximum Power (V_{mp})	37.0V	37.3V	37.6V
Current at Maximum Power (I_{mp})	8.11A	8.15A	8.20A

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

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 158.75x79.375mm
Number of cells	144 (6x24)
Module dimensions	2008x1002x40mm (79.06x39.45x1.57inches)
Weight	23kg (50.7lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), 1100mm (43.31inches)
Connector	MC4 or MC4 compatible

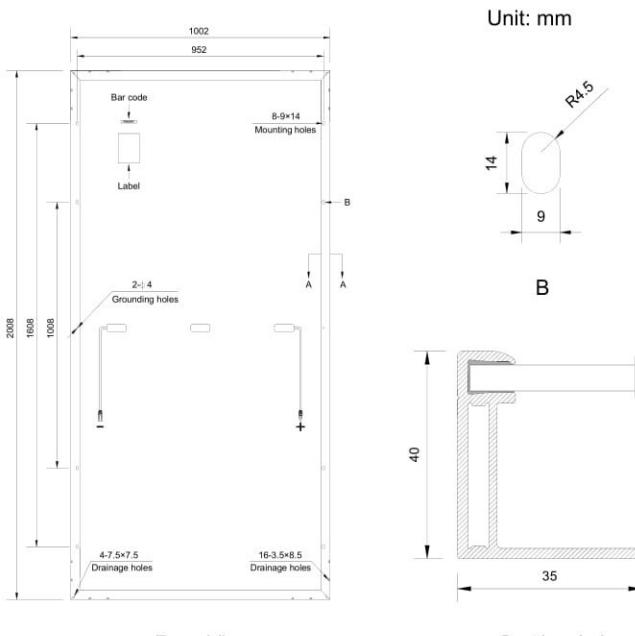
TEMPERATURE CHARACTERISTICS

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

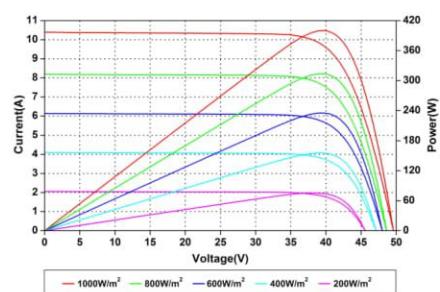
PACKAGING

Standard packaging	27pcs/pallet
Module quantity per 20' container	270pcs
Module quantity per 40' container	594pcs(GP)/649pcs(HQ)

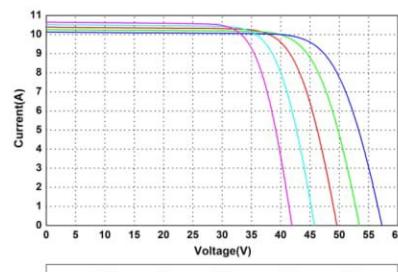
ENGINEERING DRAWINGS



IV CURVES



Current-Voltage and Power-Voltage Curves
at Different Irradiances



Current-Voltage Curves at Different
Temperatures

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