

AS-6M30-HC

320W~340W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 20.15% by using innovative Half-cell design and Passivated Emmitter Rear Contact (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.

CERTIFICATIONS

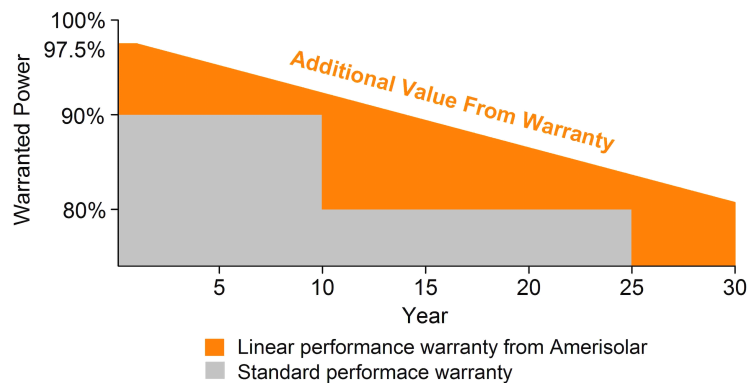
- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO 9001:2015: Quality management system
- ISO 14001:2015: 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}) | 320W | 325W | 330W | 335W | 340W |
| Open Circuit Voltage (V_{OC}) | 40.4V | 40.6V | 40.8V | 41.0V | 41.2V |
| Short Circuit Current (I_{SC}) | 10.00A | 10.08A | 10.16A | 10.24A | 10.32A |
| Voltage at Maximum Power (V_{mp}) | 33.8V | 34.0V | 34.2V | 34.4V | 34.6V |
| Current at Maximum Power (I_{mp}) | 9.47A | 9.56A | 9.65A | 9.74A | 9.83A |
| Module Efficiency (%) | 18.96 | 19.26 | 19.56 | 19.85 | 20.15 |
| 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 P_{max}: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

| | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (P_{max}) | 239W | 243W | 247W | 251W | 255W |
| Open Circuit Voltage (V_{OC}) | 37.1V | 37.3V | 37.5V | 37.7V | 37.9V |
| Short Circuit Current (I_{SC}) | 8.10A | 8.16A | 8.22A | 8.28A | 8.34A |
| Voltage at Maximum Power (V_{mp}) | 30.7V | 30.9V | 31.1V | 31.3V | 31.5V |
| Current at Maximum Power (I_{mp}) | 7.79A | 7.87A | 7.95A | 8.02A | 8.10A |

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

MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Cell type | Monocrystalline PERC158.75x79.375mm |
| Number of cells | 120 (6x20) |
| Module dimensions | 1684x1002x35mm (66.30x39.45x1.38inches) |
| Weight | 18.5kg (40.8lbs) |
| 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), Length: Portrait: 300mm Landscape: 1150mm (45.281inches) |
| Connector | MC4 or MC4 compatible |

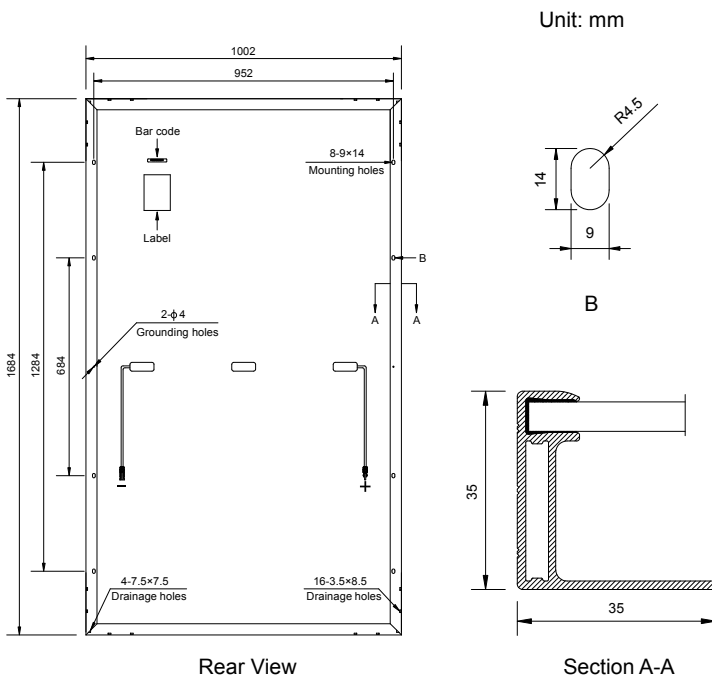
TEMPERATURE CHARACTERISTICS

| | |
|---|-----------|
| 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 |

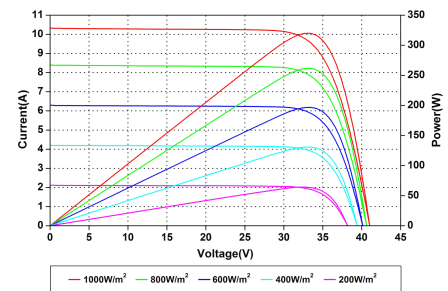
PACKAGING

| | |
|-----------------------------------|-----------------------|
| Standard packaging | 31pcs/pallet |
| Module quantity per 20' container | 372pcs |
| Module quantity per 40' container | 806pcs(GP)/884pcs(HQ) |

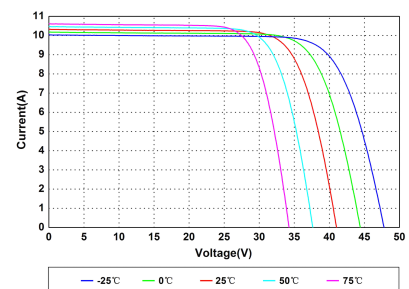
ENGINEERING DRAWINGS



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.