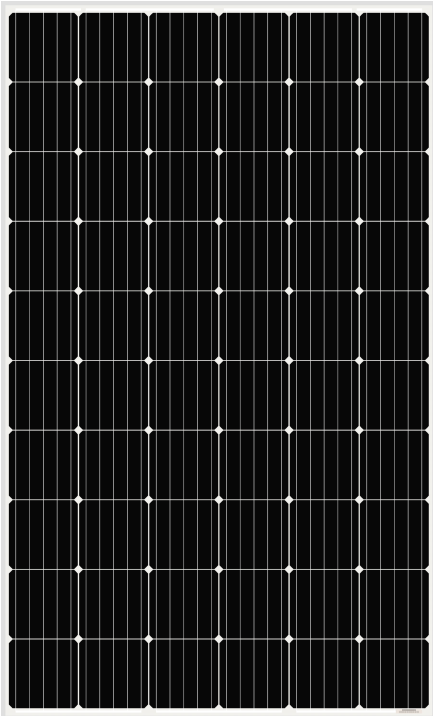




AS-6M30

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.44% through innovative five busbar cell technology.
- Low degradation 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 %.

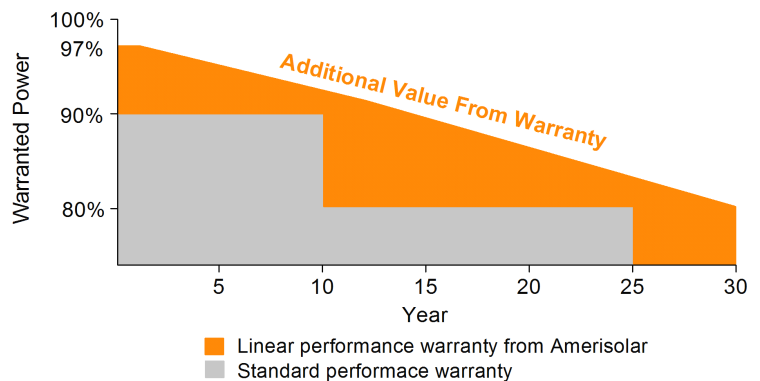
CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, CE, CQC, CGC, ETL(USA), JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC

| | | | | | | | | |
|---------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power (P_{max}) | 265W | 270W | 275W | 280W | 285W | 290W | 295W | 300W |
| Open Circuit Voltage (V_{OC}) | 38.1V | 38.2V | 38.3V | 38.4V | 38.5V | 38.6V | 38.7V | 38.8V |
| Short Circuit Current (I_{SC}) | 9.00A | 9.12A | 9.24A | 9.37A | 9.49A | 9.62A | 9.75A | 9.88A |
| Voltage at Nominal Power (V_{mp}) | 31.0V | 31.1V | 31.2V | 31.3V | 31.4V | 31.5V | 31.6V | 31.7V |
| Current at Nominal Power (I_{mp}) | 8.55A | 8.69A | 8.82A | 8.95A | 9.08A | 9.21A | 9.34A | 9.47A |
| Module Efficiency (%) | 16.29 | 16.60 | 16.90 | 17.21 | 17.52 | 17.83 | 18.13 | 18.44 |
| Operating Temperature | -40°C to +85°C | | | | | | | |
| Maximum System Voltage | 1000V 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

| | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power (P_{max}) | 196W | 200W | 204W | 207W | 211W | 215W | 218W | 222W |
| Open Circuit Voltage (V_{OC}) | 35.1V | 35.2V | 35.3V | 35.4V | 35.5V | 35.6V | 35.7V | 35.8V |
| Short Circuit Current (I_{SC}) | 7.29A | 7.39A | 7.48A | 7.59A | 7.69A | 7.79A | 7.90A | 8.00A |
| Voltage at Nominal Power (V_{mp}) | 28.2V | 28.3V | 28.4V | 28.5V | 28.6V | 28.7V | 28.8V | 28.9V |
| Current at Nominal Power (I_{mp}) | 6.95A | 7.07A | 7.19A | 7.27A | 7.38A | 7.50A | 7.57A | 7.68A |

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

MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Cell type | Monocrystalline 5BB 156.75x156.75mm (6x6inches) |
| Number of cells | 60 (6x10) |
| Module dimensions | 1640x992x35mm (64.57x39.06x1.38inches) |
| Weight | 18kg (39.7lbs) |
| Front cover | 3.2mm (0.13inches) tempered glass with AR coating |
| Frame | Anodized aluminum alloy |
| Junction box | IP67, 3 diodes |
| Cable | 4mm ² (0.006inches ²), 900mm (35.43inches) |
| Connector | MC4 or MC4 compatible |

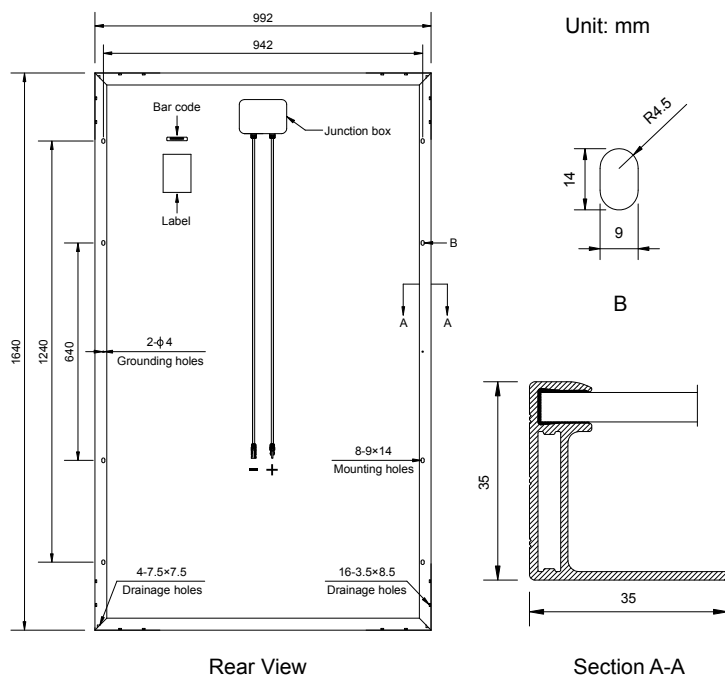
TEMPERATURE CHARACTERISTICS

| | |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficients of P_{max} | -0.41%/°C |
| Temperature Coefficients of V_{OC} | -0.31%/°C |
| Temperature Coefficients of I_{SC} | 0.05%/°C |

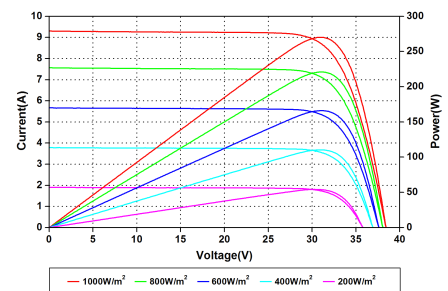
PACKAGING

| | |
|-----------------------------------|-----------------------|
| Standard packaging | 30pcs/pallet |
| Module quantity per 20' container | 360pcs |
| Module quantity per 40' container | 840pcs(GP)/924pcs(HQ) |

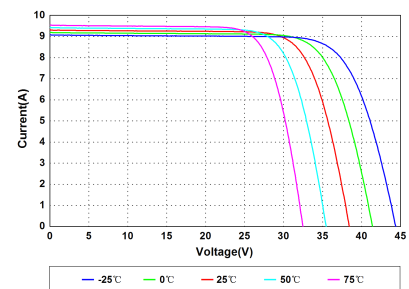
ENGINEERING DRAWINGS



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.