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Solar Panel Guide Specification Data Sheet

Qingdao Yinghua Solar Co., Ltd.

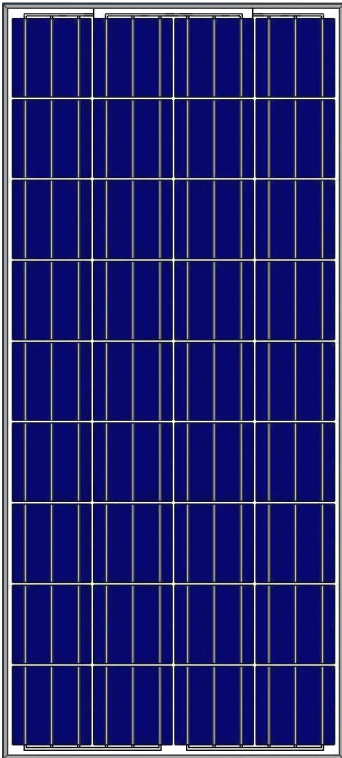
AS-6P18 135-165

AS-6P18-160W

Also available on the web at
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AS-6P18

POLYCRYSTALLINE MODULE



Passionately
committed to
delivering innovative
energy solution

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

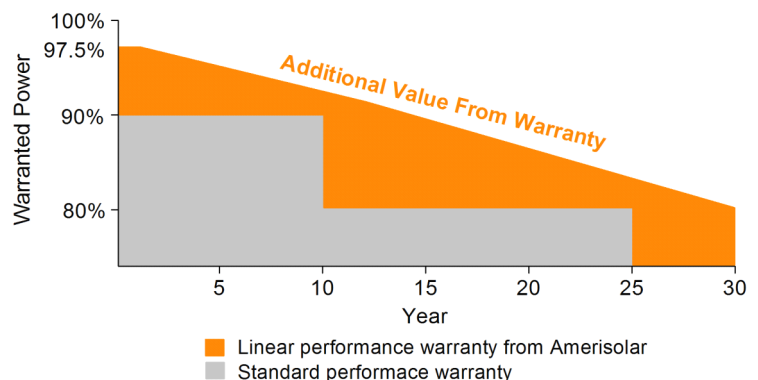
- High module conversion efficiency up to 16.73% through advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +5 W.
- High ammonia and salt mist resistance.
- Potential induced degradation (PID) resistance.

CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 10 years limited product warranty.
- Limited linear power warranty: 10 years 91.2% of the nominal power output, 25 years 80.6% of the nominal power output.



ELECTRICAL CHARACTERISTICS AT STC

| | | | | | | | |
|---------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|
| Nominal Power (P_{max}) | 135W | 140W | 145W | 150W | 155W | 160W | 165W |
| Open Circuit Voltage (V_{OC}) | 21.8V | 22.0V | 22.2V | 22.4V | 22.6V | 22.8V | 23.0V |
| Short Circuit Current (I_{SC}) | 8.24A | 8.39A | 8.55A | 8.70A | 8.85A | 9.00A | 9.15A |
| Voltage at Nominal Power (V_{mp}) | 17.6V | 17.8V | 18.0V | 18.2V | 18.4V | 18.6V | 18.8V |
| Current at Nominal Power (I_{mp}) | 7.68A | 7.88A | 8.06A | 8.25A | 8.43A | 8.61A | 8.78A |
| Module Efficiency (%) | 13.69 | 14.20 | 14.70 | 15.21 | 15.72 | 16.22 | 16.73 |
| Operating Temperature | -40°C to +85°C | | | | | | |
| Maximum System Voltage | 1000V DC | | | | | | |
| Fire Resistance Rating | Type 1(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}) | 100W | 103W | 107W | 110W | 114W | 118W | 121W |
| Open Circuit Voltage (V_{OC}) | 20.1V | 20.2V | 20.4V | 20.6V | 20.8V | 21.0V | 21.2V |
| Short Circuit Current (I_{SC}) | 6.67A | 6.80A | 6.93A | 7.05A | 7.17A | 7.29A | 7.41A |
| Voltage at Nominal Power (V_{mp}) | 16.0V | 16.2V | 16.4V | 16.6V | 16.8V | 17.0V | 17.1V |
| Current at Nominal Power (I_{mp}) | 6.25A | 6.36A | 6.53A | 6.63A | 6.79A | 6.95A | 7.08A |

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

MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Cell type | Polycrystalline 156x156mm (6x6inches) |
| Number of cells | 36 (4x9) |
| Module dimensions | 1470x670x35mm (58.39x26.18x1.38inches) |
| Weight | 12kg (26.5lbs) |
| Front cover | 3.2mm (0.13inches) low-iron tempered glass |
| Frame | Anodized aluminum alloy |
| Junction box | IP65, 2 diodes |
| Cable | 4mm ² (0.006inches ²), 900mm (35.43inches) |
| Connector | MC4 or MC4 compatible |

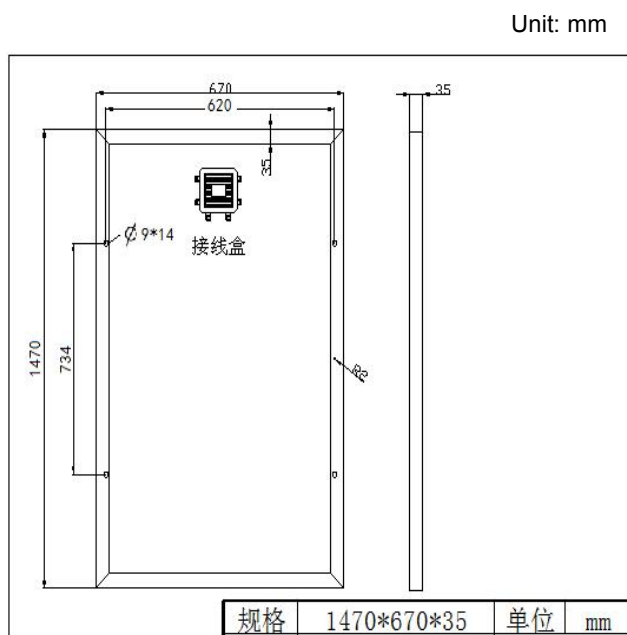
TEMPERATURE CHARACTERISTICS

| | |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficients of P_{max} | -0.43%/°C |
| Temperature Coefficients of V_{OC} | -0.33%/°C |
| Temperature Coefficients of I_{SC} | 0.056%/°C |

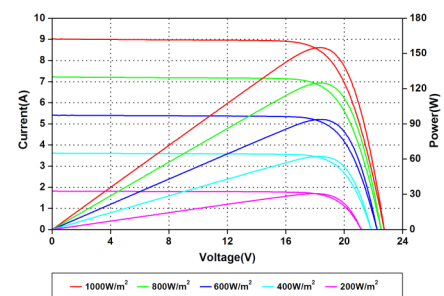
PACKAGING

| | |
|-----------------------------------|--------------|
| Standard packaging | 29pcs/pallet |
| Module quantity per 20' container | 504 pcs |
| Module quantity per 40' container | 1080 pcs |

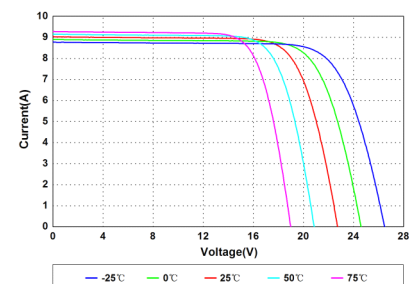
ENGINEERING DRAWINGS



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.