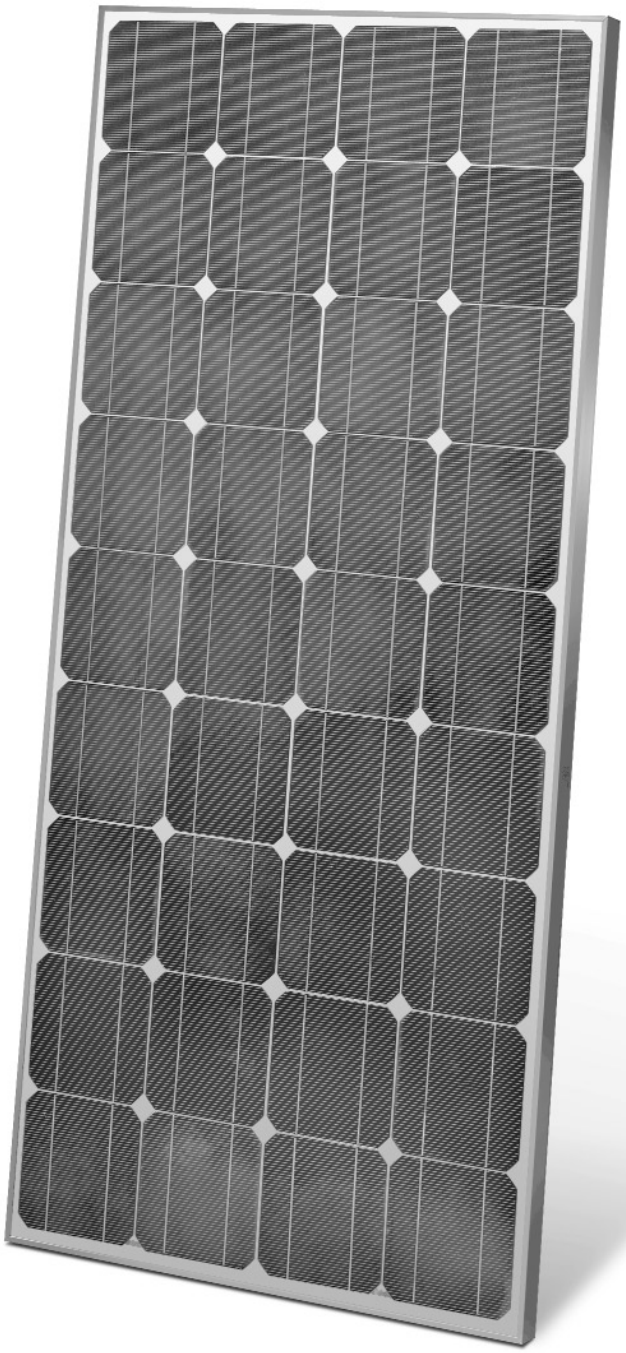
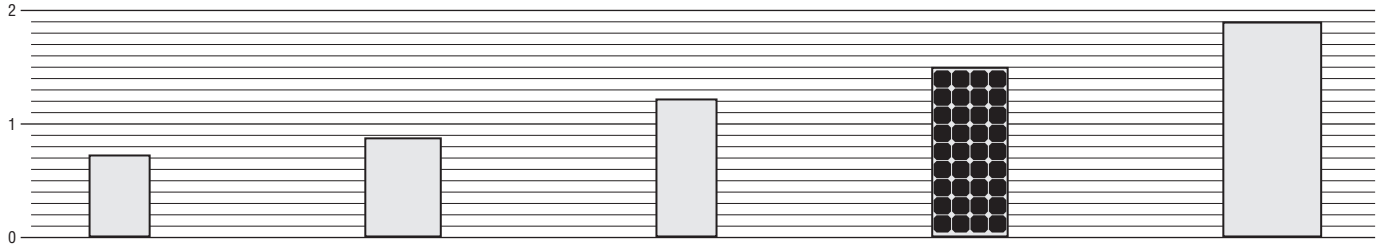
# **AP-120** PHOTOVOLTAIC MODULE

- Generates more than 7.1 amps of current in full sunlight.
- Ideal for AC and DC installations up to 600 Vdc (nominal).
- Weather-resistant junction box for easy and safe field installation.
- Dual low-loss bypass diodes for superior protection and minimum power loss when partially shaded.
- 100% factory inspected to ensure quality and electrical performance.
- Heavy-duty anodized aluminum frame provides strength and convenient mounting access.
- Overall dimensions and mounting hole pattern conform to industry standards.
- Certified to IEC-61215, the highest industry standard.
- UL listed, TÜV qualified.
- 20-year warranty.



***The AP-120 is the workhorse of AstroPower's module line. It is ideal for multi-kW arrays such as grid-connected residential rooftop systems where higher individual module power reduces interconnection and installation labor costs.***

AstroPower Module Product Range

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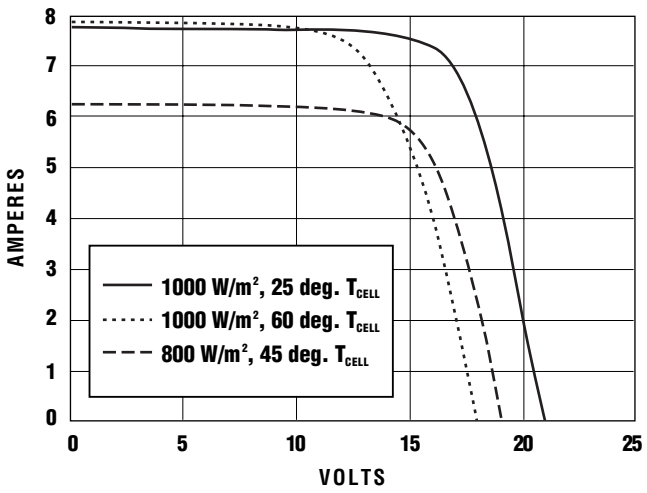
# **AP-120** ELECTRICAL/MECHANICAL CHARACTERISTICS




## TYPICAL ELECTRICAL PARAMETERS

| | | |
|---|---|---|
| **Peak Power *($W_p$)** | Watts | 120 |
| **Open Circuit Voltage ($V_{oc}$)** | Volts | 21.0 |
| **Max. Power Voltage ($V_{mp}$)** | Volts | 16.9 |
| **Short Circuit Current ($I_{sc}$)** | Amps | 7.7 |
| **Max. Power Current ($I_{mp}$)** | Amps | 7.1 |
| **Short Circuit Temp. Coefficient** | mA/°C | +3.5 |
| **Open Circuit Voltage Coefficient** | V/°C | -0.08 |
| **Max. Series Fuse** | Amps | 15 |

@ Standard Test Conditions (defined as: Irradiance = 1000 W/m²; cell temperature = 25°C; AM 1.5G solar spectrum.)
*rated power tolerance ±10%

## TYPICAL OPERATIONAL SPECIFICATIONS

| | |
|---|---|
| **Nominal Operating Cell Temp. (NOCT)** | 45°C (Determined under: Irradiance = 800 W/m²; ambient temperature = 20°C; wind speed = 1m/s) |
| **Weight (Wind) Bearing Potential** | 50 lbs/ft² (125 mph equiv.) |
| **Hailstone Impact Resistance** | 1" @ 50 mph (25.4 mm @ 80.5 kph) |
| **Weight** | 26.1 lbs. (11.9 kg) |
| **Dimensions** | 26.0 x 58.1 x 1.4 in. (661 x 1477 x 35 mm) |

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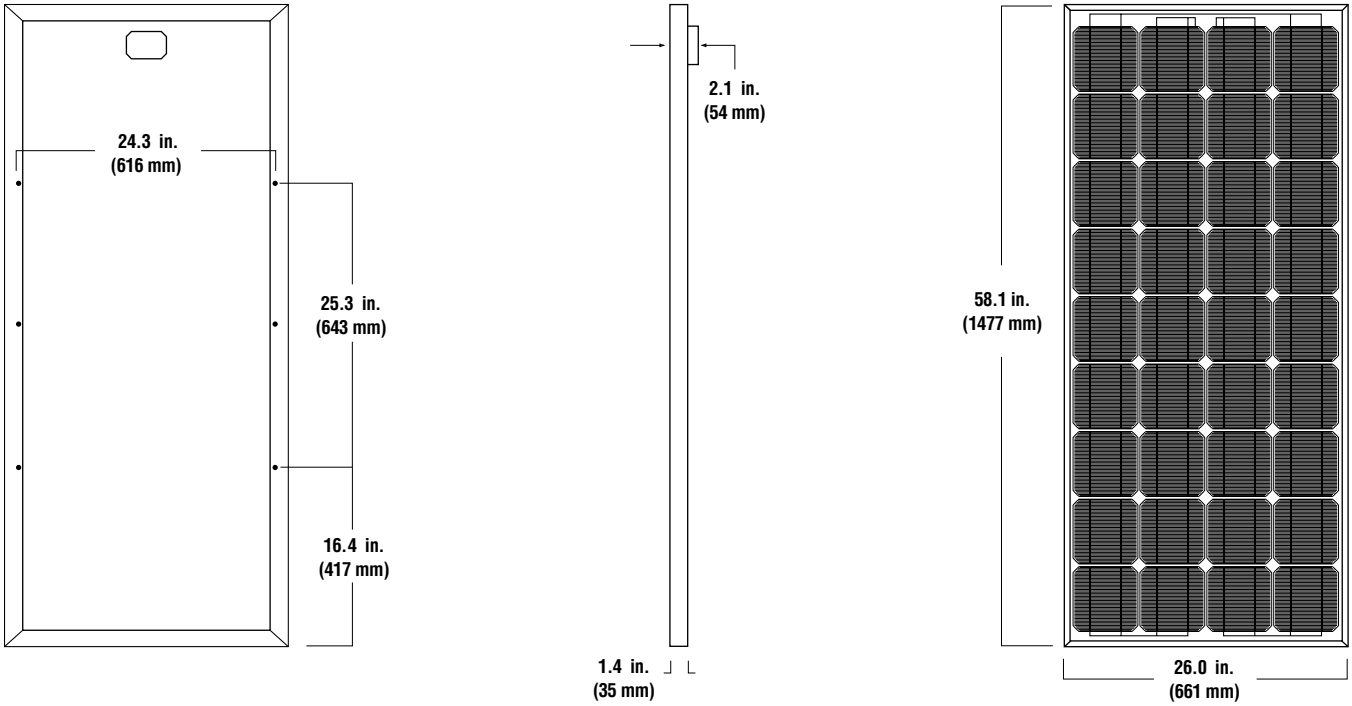


Note: Mounting hole diameter is .26" (6.6 mm).

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