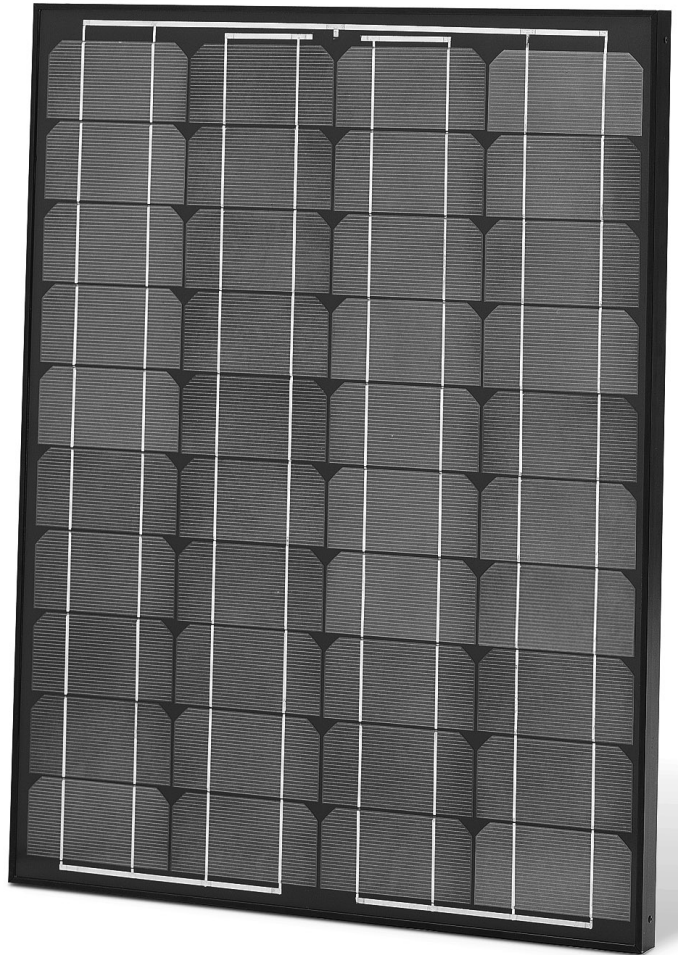


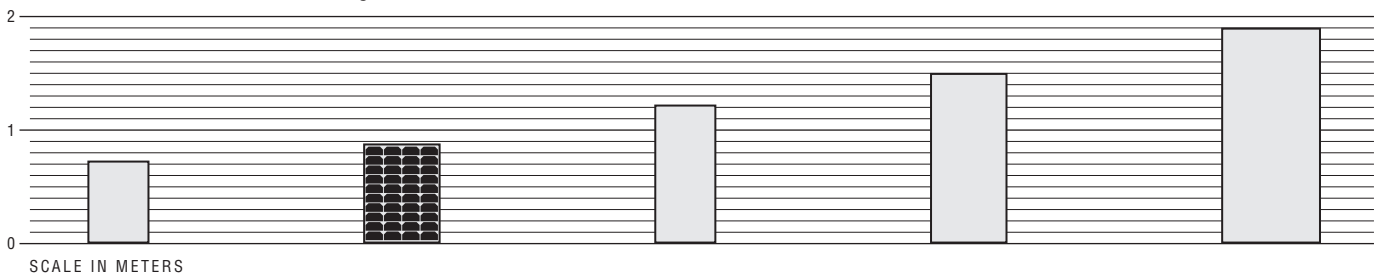
AP-50 PHOTOVOLTAIC MODULE

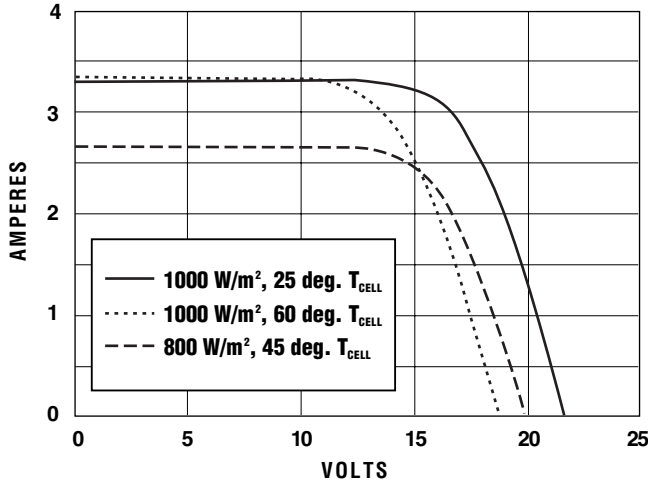
- More than 3.0 amps of battery-charging current in full sunlight.
- Designed specifically for low capacity 12-48 volt DC systems.
- Ideal for solar electric home power systems.
- Weather-resistant junction box for easy and safe field installation.
- Dual low-loss bypass diodes for superior protection 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.
- Certified to IEC-61215, the highest industry standard.
- UL listed.
- 20-year warranty.

The AP-50 is designed specifically to address the growing worldwide demand for 50-watt solar electric home power systems. Producing more than 3.0 amps of battery-charging current under full sunlight, this module employs a blue backsheet and black frame for optimum aesthetics when roof-mounted.



AstroPower Module Product Range





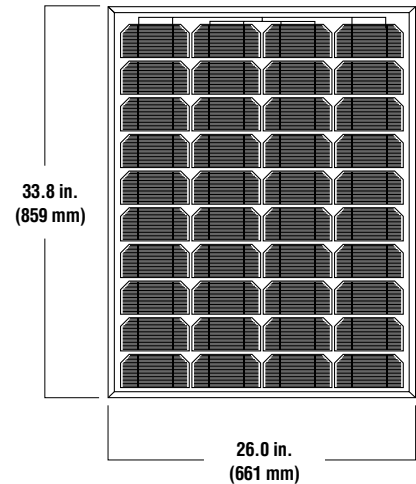
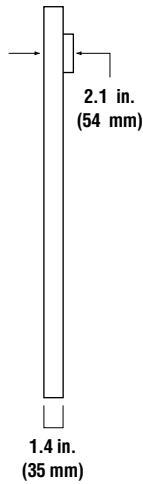
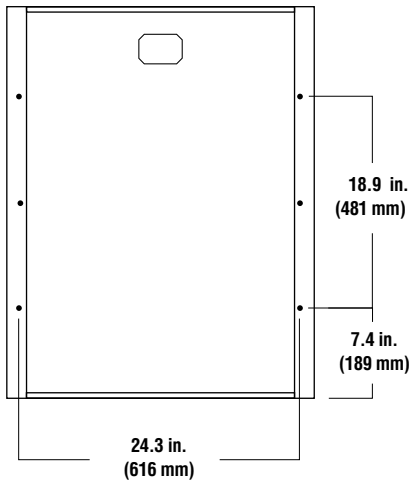
TYPICAL ELECTRICAL PARAMETERS

Peak Power * (W_p)	Watts	50
Open Circuit Voltage (V_{oc})	Volts	21.5
Max. Power Voltage (V_{mp})	Volts	16.7
Short Circuit Current (I_{sc})	Amps	3.3
Max. Power Current (I_{mp})	Amps	3.0
Short Circuit Temp. Coefficient	$mA/^\circ C$	+1.5
Open Circuit Voltage Coefficient	$V/^\circ C$	-0.09
Max. Series Fuse	Amps	5

@ 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/m ² ; ambient temperature = 20°C; wind speed = 1m/s)
Weight (Wind) Bearing Potential	50 lbs/ft ² (125 mph equiv.)
Hailstone Impact Resistance	1" @ 50 mph (25.4 mm @ 80.5 kph)
Weight	16.6 lbs. (7.5 kg)
Dimensions	26.0 x 33.8 x 1.4 in. (661 x 859 x 35 mm)



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

