

6V 4.5W Monocrystalline Solar Panel

Product Name: 6V 4.5W Monocrystalline Solar Panel

Product Dimension: 165×165mm

Appearance Color: White

Encapsulation Structure: Monocrystalline solar cells + EVA film + PET
front encapsulation

Net Weight: Approx. 120g (for reference only)

Electrical Parameters (Core parameters, calculated by the formula $P=U \times I$.)

Peak Power (P_{max}): 4.5W

Peak Voltage (V_{mp}): 6.0V

Peak Current (I_{mp}): 0.75A

Open Circuit Voltage (V_{oc}): $\approx 7.2V$ (Typical for monocrystalline, 20%
higher than V_{mp})

Short Circuit Current (I_{sc}): $\approx 0.80A$

Test Condition: AM1.5, Irradiance $1000W/m^2$, Cell Temperature $25^{\circ}C$

Environmental Parameters

Operating Temperature Range: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Storage Temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Temperature Coefficient

Power Temperature Coefficient: $-0.38\%/^{\circ}\text{C}$

Open Circuit Voltage Temperature Coefficient: $-0.32\%/^{\circ}\text{C}$

Short Circuit Current Temperature Coefficient: $+0.04\%/^{\circ}\text{C}$

Note: The output voltage decreases with rising temperature; open circuit voltage increases at lower temperature.