

SOLAR CELL

with Arduino compatible barrel plug termination

| Stock Code | Description | Ampere (mA) | Voltage (V) | Size (mm) |
|------------|----------------------------|-------------|-------------|-------------|
| SC10036 | Monocrystalline Solar Cell | 100 mA | 3.6V | 60 x 60 mm |
| SC10050 | Monocrystalline Solar Cell | 100 mA | 5.0V | 75 x 60 mm |
| SC10072 | Monocrystalline Solar Cell | 100 mA | 7.2V | 90 x 70 mm |
| SC20036 | Monocrystalline Solar Cell | 200 mA | 3.6V | 85 x 85 mm |
| SC20050 | Monocrystalline Solar Cell | 200 mA | 5.0V | 120 x 70 mm |
| SC20072 | Monocrystalline Solar Cell | 200 mA | 7.2V | 140 x 90 mm |

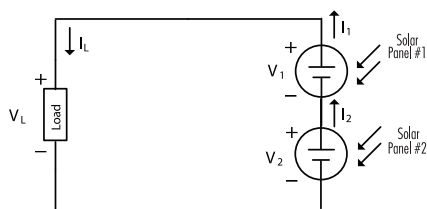
Helpful Tips

Calculating Watts

$$\text{Power [Watt]} = \text{Voltage [Volt]} \times \text{Current [Ampere]}$$

Wiring Multiple Solar Panels

Series Wiring



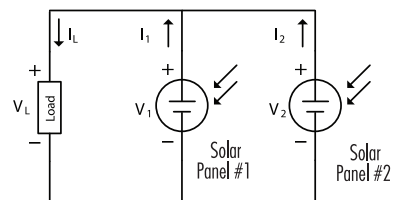
Formula:

$$I_L = I_1 = I_2$$

$$V_L = V_1 + V_2$$

If your application needs a higher voltage supply source, you can wire multiple solar panels in series. You can wire the positive terminal of solar panel #1 to the load, and connecting the negative terminal of solar panel #1 to the positive terminal of solar panel #2. In this wiring, the total voltage delivered to the load will be doubled and the rated current supply will remain the same.

Parallel Wiring



Formula:

$$I_L = I_1 + I_2$$

$$V_L = V_1 = V_2$$

If your application needs more power, you can wire multiple solar panels in parallel. By connecting the positive terminal of solar panel #1 to the positive terminal of solar panel #2, and connecting the negative terminal of solar panel #1 to the negative terminal of solar panel #2, the maximum current that can be delivered to the load will be doubled. The rated voltage will remain the same.

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