

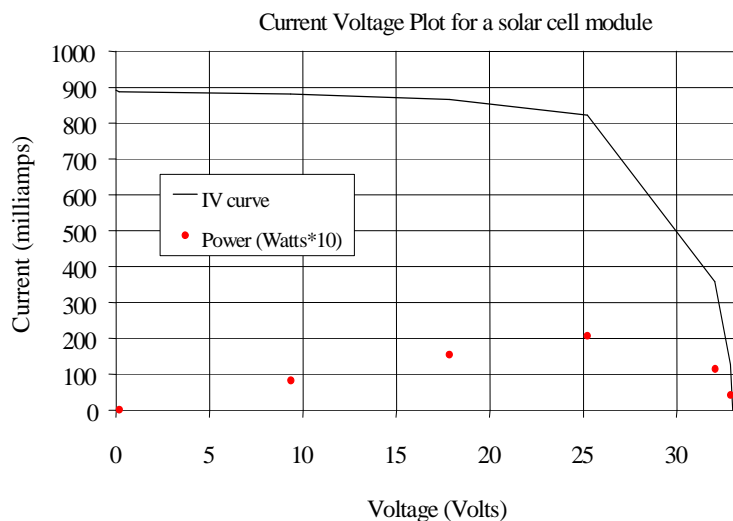
**First Part**

You can use the questions below to organize or support your presentation, but feel free to use them in any order you like. You can also use your knowledge to make your exposé.

- What PV stands for ? What energy conversion does a PV cell make ?
- Why it is necessary to use an inverter in the house?
- What happens if excess power is produced ?
- What can we use to store electricity ?
- Give reasons why it is interesting to use solar panels for houses.

**Second Part**

The following I/V graph is given for a solar cell.



*The solar cell is similar to a battery and as the load varies, the current voltage curve doesn't follow Ohms law.*

- Give the value of the short-circuit current of the solar cell.
- Give the value of the open-circuit voltage of the solar cell.
- Show on the graph the maximum power point and calculate its value.
- What will happen if we go beyond this operating point ?