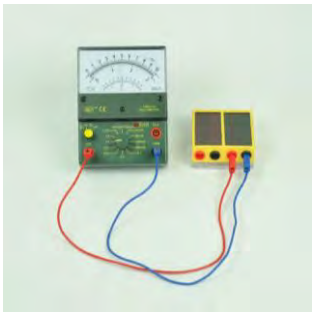
SERIES CONNECTION OF SOLAR CELLS

AES 6.2

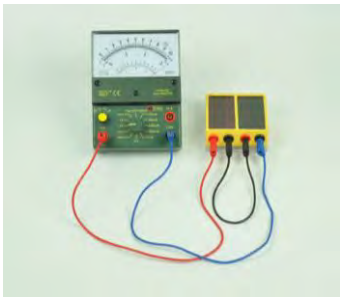
What happens when solarcells get connected in series?

Action:

- Set a measuring range of 3V (DC) on the meter
- Measure the voltage at the left solarcell
- Read off the measured value and transfer it into the chart

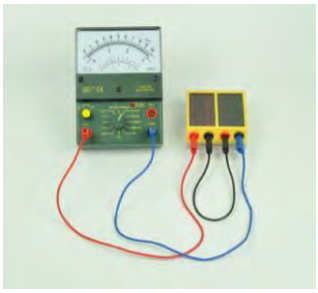


- Measure the voltage at the right solarcell
- Read off the measured value and transfer it into the chart



- Connect both solarcells with the measuring device in series through a cable (black, 25cm)
- Read off the measured value and transfer it into the chart

- Remove the cable from the meter



- Set a measuring range of at least 100 mA (DC)
- Connect the cable again (use the correct plugs)
- Read off the measured value and transfer it into the chart

Measurement	Voltage (V DC)	Current (mA DC)
at the left solarcell		
at the right solarcell		
2 solarcells in a series		
2 solarcells parallel		

Analyse the measured values.

Result:
If solar cells are placed in series, the voltage gets summated.
The current is an arithemtic average of the single solarcells.

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