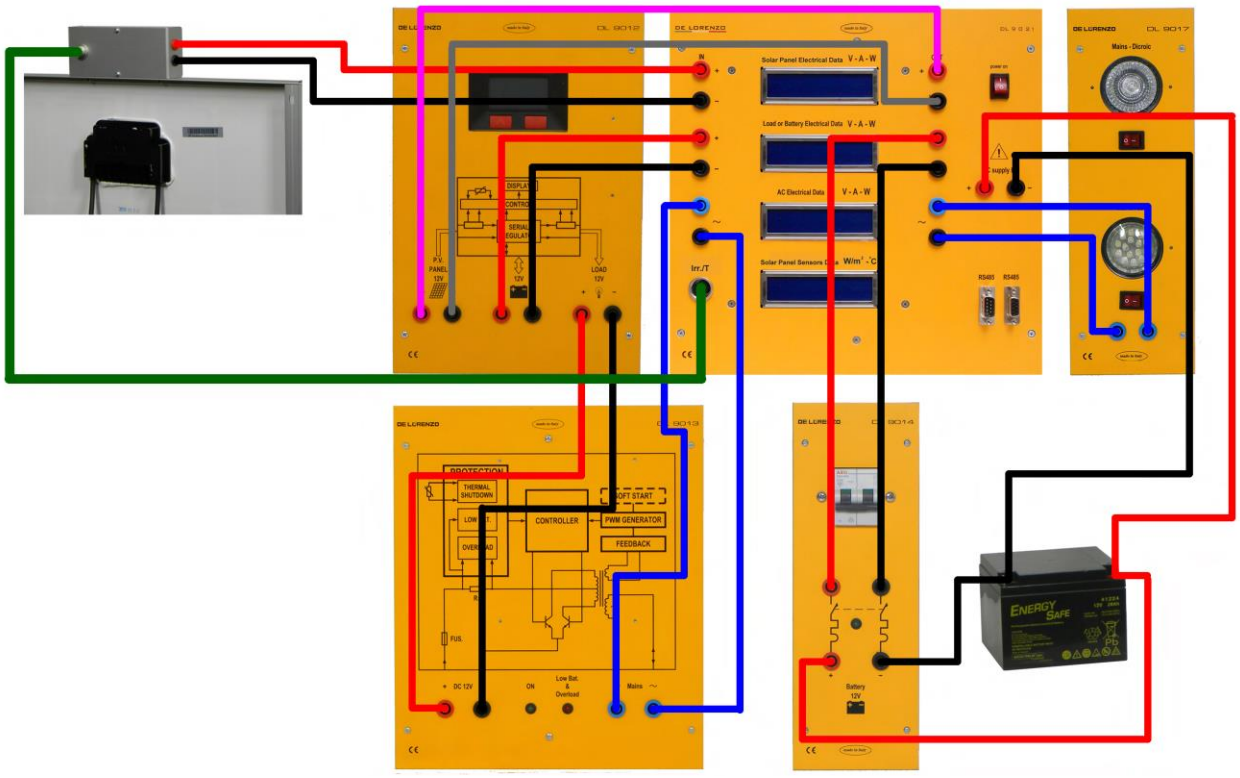

Follow the described procedure and fill in the following table.

1. Find the position in which the solar panel provides highest irradiation (read the azimuth using compass and inclination using the angle-meter built-in to the side of the solar panel): _____° from the north and _____° from the horizontal position.
2. Enable the breaker of the DL 9014 module, to connect the battery to the circuit.
3. Switch on the halogen lamp.
4. Using the charge regulation module DL 9012 read the voltage of the battery.
5. Using the charge regulation module DL 9012 read the load current flow.
6. Calculate the DC power.
7. Using the measurement module DL 9021 read the AC load power

8. Knowing input and output power to the inverter, calculate the inverter efficiency.
9. Switch off the halogen lamp and switch on the LED lamp.
10. Repeat points 4-8.
11. Switch on the halogen lamp.
12. Repeat points 4-8.
13. Disable the breaker of the DL 9014 module, disconnecting the battery from the circuit.

	Halogen	LED	Halogen + LED
Voltage (V)			
Load current (A)			
DC power (W)			
AC power (W)			
Inverter efficiency (%)			