Install and connect the SPM controller

- Mount the SPM controller behind the main beam of the HLPV tracker using the provided 4 snaplock mounting pins.
- (Optional) connect the wind sensor to the SPM controller using the provided M12 patch cable. If necessary, standard 5pin M12 patch cables may be connected in series to extend the length of the wind sensor cable.
- Connect the SPM controller in parallel to a (partial) string of 6 to 8 PV modules following the connection diagram shown below. The open circuit voltage of the partial string of PV modules must not exceed the maximum input voltage rating of the SPM controller (400 V\textsubscript{DC}).
- To start and recharge the battery pack of the SPM controller in the office, it is possible to use an optional 28V power supply which can be plugged into the wind sensor M12 port.
Setup the wifi internet connection (optional)

- Insure that the signal of your wifi router is available at the location where the tracker controller is installed.
- Connect your phone/computer to the temporary wifi access point “helioslite-tracker” generated by the controller using the password provided by HeliosLite.
- Launch a web-browser application and your device should be automatically redirected to the setup page of the controller embedded native portal server. If not, enter the following URL in your web-browser : http://192.168.42.1
- Enter your login and password provided by HeliosLite.
- Click on Config and Wifi tab to configure the wifi connection parameters.
- Select in the list the correct wifi SSID and enter the passphrase of your wifi accesspoint.

Launch the SPM controller user interface

- If you have completed the step 2, connect your phone/computer to your wifi router and find the IP address which has been assigned to the SPM controller.
- Connect to the web page of the SPM controller user interface using the assigned IP address (example: http://192.168.1.28).
- If you have not completed the step 2, you can connect to the web page of the SPM controller user interface using the “helioslite-tracker” access point and the following URL: http://192.168.42.1
- Click on button; in the Time tab click on to adjust the controller CPU board and real time clocks.

Initialize and start the tracker

- Click on to stop all the trackers.
- Click on and select the trackers you want to control (maximum 2 at a time).
- Connect up to a maximum of 5 linear actuators to the M12 ports Tracker 1-3 of the SPM controller. All unused ports should be sealed with M12 connector caps.
- In the “Admin” tab of the master controller user interface click on the Full-reverse button and wait until the actuator(s) have reached their home position (fully retracted position).
- Click on the Zero button to zero the encoder(s) of the actuator(s). Type “zero” to confirm the command.
- In the “Normal” tab click on the Track-on button to start the tracker(s).
- Please refer to HeliosLite software documentation for additional details regarding other features of the controller user interface.