

Operation checklist



You can use this checklist to ascertain if the system is functioning properly. Please fill the document and send it back to Eco-\$mart, Inc. for analysis.



TESTING TIME

Daytime
If the testing is done before sunset

Night time
If the testing is done after sunset



VISUAL INSPECTION

PV module connection
Check if the yellow and black wire of the controller are connected to the PV by the cables that are coming down from the top of the pole

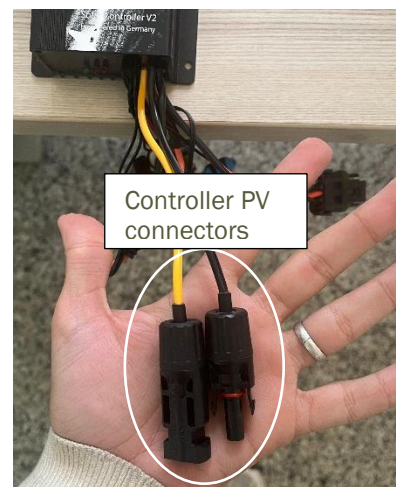
Battery connection
Check if the batteries are connected properly and check if the fuse is properly in place as well

Lamp connection
Check if the cable coming from the lamp from the top of the pole is properly connected to the controller

Ctrl red LED on
This would mean that the batteries have been completely depleted and to be fully recharged

Ctrl green LED steady on
This would mean that the controller is in night mode: the lamp should be on and does not read any voltage coming from the PV module (this is bad in daytime)

Ctrl green LED flashing on
This would mean that the controller is in day mode: the lamp should be off and does detect voltage coming from the PV





MEASUREMENTS

PV voltage output

Disconnect the PV module and measure the voltage. Should be 7-10V. In case of double PV module, reading should still be the same, if different, please measure the voltage of each module separately

Battery charger output voltage

If the relay is off, turn it on using a small 3-5V battery, then disconnect the battery charger at the bottom of the pole and measure the output voltage (should read 12-15V)

Pole	Component	Measured voltage (V)
1	PV#1	
	PV#2	
	Charger	
2	PV#1	
	PV#2	
	Charger	
3	PV#1	
	PV#2	
	Charger	
4	PV#1	
	PV#2	
	Charger	
5	PV#1	
	PV#2	
	Charger	
6	PV#1	
	PV#2	
	Charger	
7	PV#1	
	PV#2	
	Charger	
8	PV#1	
	PV#2	
	Charger	
9	PV#1	
	PV#2	
	Charger	
10	PV#1	
	PV#2	
	Charger	

Date:

Name:

Project Name:

Project Address:

Phone:

Email: