

Data Collection

Solar Cells



Time	Light level	No of Solar cells	Connection Type Series/ Parallel	Output voltage	

Capacitors

take regular readings of voltage and current flow to be used in a graph showing charging/ discharging curves for different charging systems. Try different capacitor types and values for school based experimentation, but for Race Day all schools must use the 10F capacitor identified in the current rules

Charging-

Capacitance	Charging source	Charging pattern											Total time to charge	
		Time												
		Voltage												
		Current												
Discharging	•							-						
Capacitance	Load type, e.g: loaded / unloaded motor, light bulb etc	Discharging pattern											Total time to discharge	

Time Voltage Current