

1. Test Name: Battery Discharging

Test Author: Andrew and Xiaolong

Battery is connected to a decade resistor box, the resistance is set to 8 ohms (6.5V and 750mA) to simulate the current draw, voltage across the terminal of the battery is measured every 15 minutes with the resistor box is connected. The results are collected and a scatter graph can be created to show the relationship of battery discharging. Then high voltage and low voltage disconnected voltages can be determined based on the resulting curve.

2. Required Equipment

	Equipment Description	Quantity	Settings
1	Multimeter	1	Measure voltage
2	Decade resistor box	1	8 ohms
3			

Table 1: Required equipment and its settings.

3. Test Procedure

Step 1: Set the decade box as close as possible to 8 ohms

Step 2: Connect the decade resistor box across the battery terminals.

Step 3: Measure the voltages across the terminals of the battery every 15 minutes when the resistor box is connected. Record the value in MS Excel.

Step 4: When the battery terminal voltage drops below 5.8V disconnect the decade box and battery.

4. Test Results

Step #	Description	Spec	Measurement
1		4 Hours	Time (Minutes):

Table 2: The results of the test procedure.

5. Pass/Fail

Did the unit pass or fail the test? Defend your decision.

PASS	FAIL

Table 3: PASS/FAIL