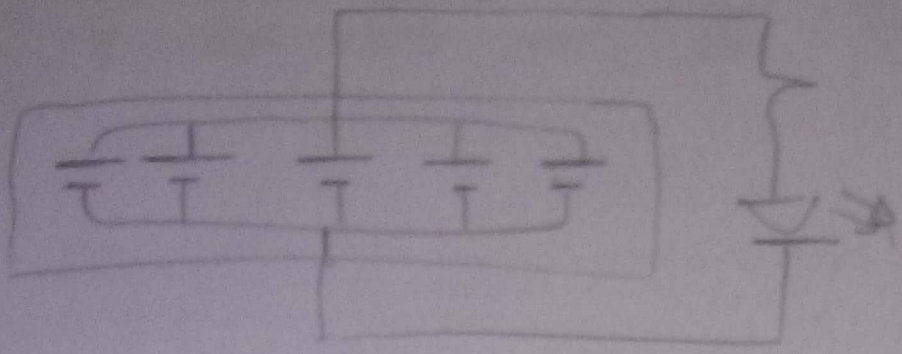

5.2Ah x 0.8 = 4.16Ah ← capacity before recharging

$\frac{4.16}{1} = \frac{x}{\text{1}}$

needed current = $\frac{12}{3.3}$ = 3.636 A

x = 1.144 hour

* for getting full shows

* $\frac{1.5}{1.144}$ = 1.37 ⇒ 5

* more than 5 batteries are enough.

BMS is a very important tool when dealing with parallel batteries. Especially when dealing with cars as it cost 40% of the total cost of the car. It has two types active and passive where passive is simple and cost-wise. It is important to managing battery in three different areas soc, soh and thermal management. It has the function to cell monitoring and power management. Using the coulomb counting method to measure soc.