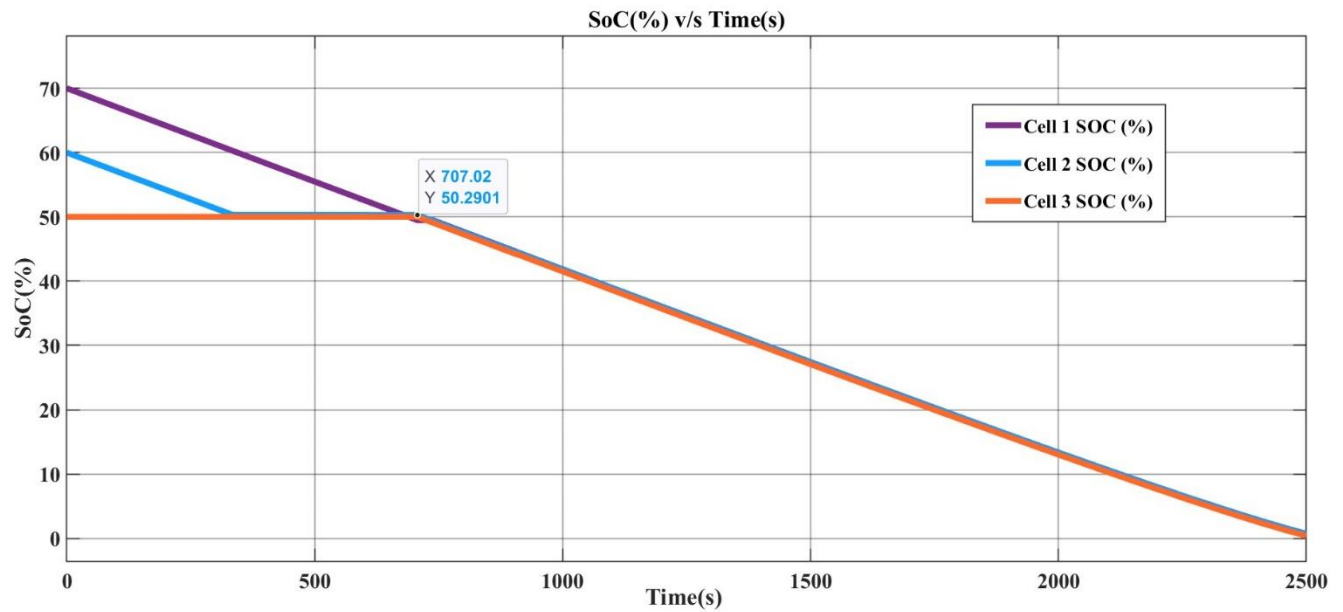


## Balancing and Discharging by Min SoC BSP Strategy :

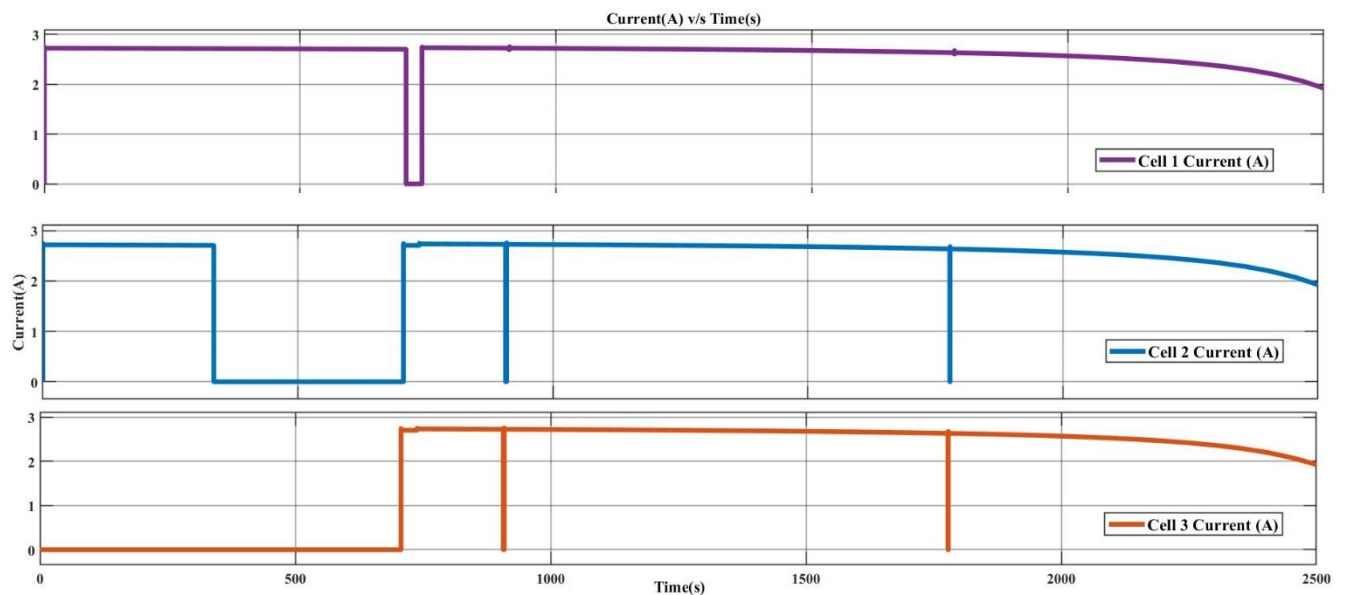
### SoC Results :



**Fig 1 : Balancing and Discharging by Min SoC BSP Strategy**

In the above **Fig 1** the SoC result are represented in that graph the cell 2 balanced at 334 seconds and the cell 1 got balanced at 707 seconds. When all the 3 cells got balanced at 50% (Min) SoC then all the cells started to discharge at 0.5C rate and around 2500 seconds all the cells discharged at 0% SoC.

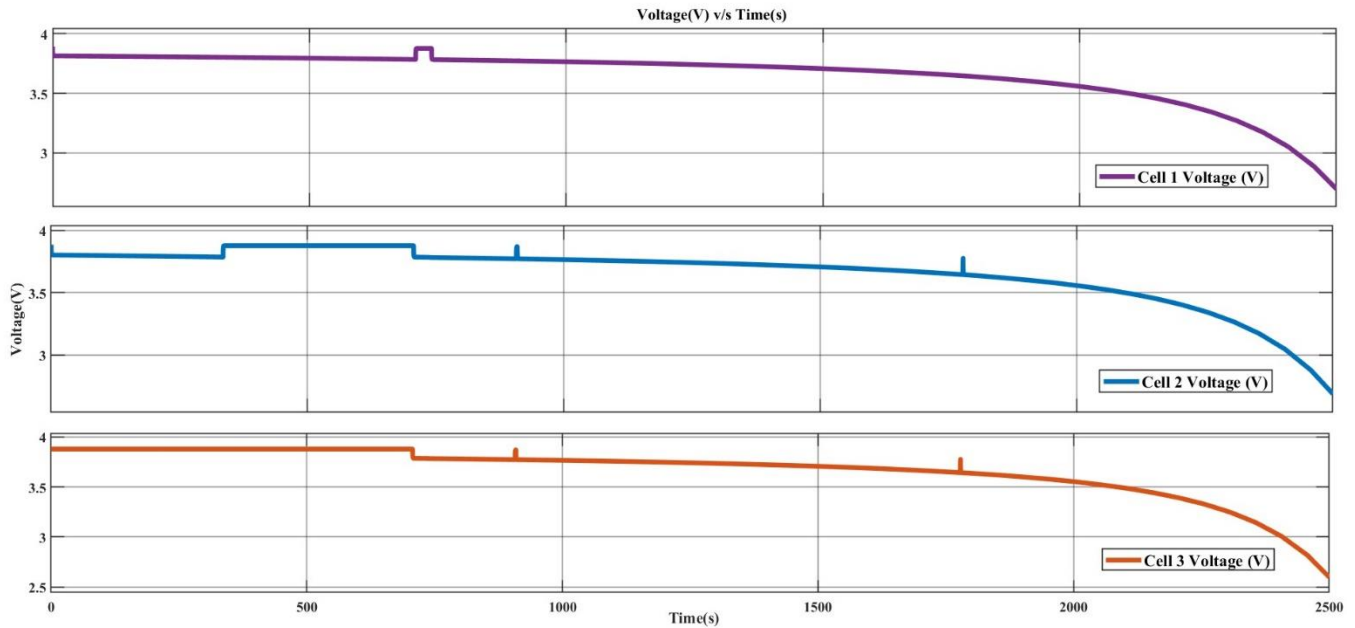
### Current Results :



**Fig 2 : Current Results of Balancing and Discharging by Min SoC BSP Strategy**

In **Fig 2** at initial when cell 1 and cell 2 started discharging for balancing SoC then they flowing 2.7 A current. When cells got balanced then their currents becomes zero until all cells balanced. When all cells got balanced then all cells flowing current of 2.7 A and it decreases with time because of discharging process.

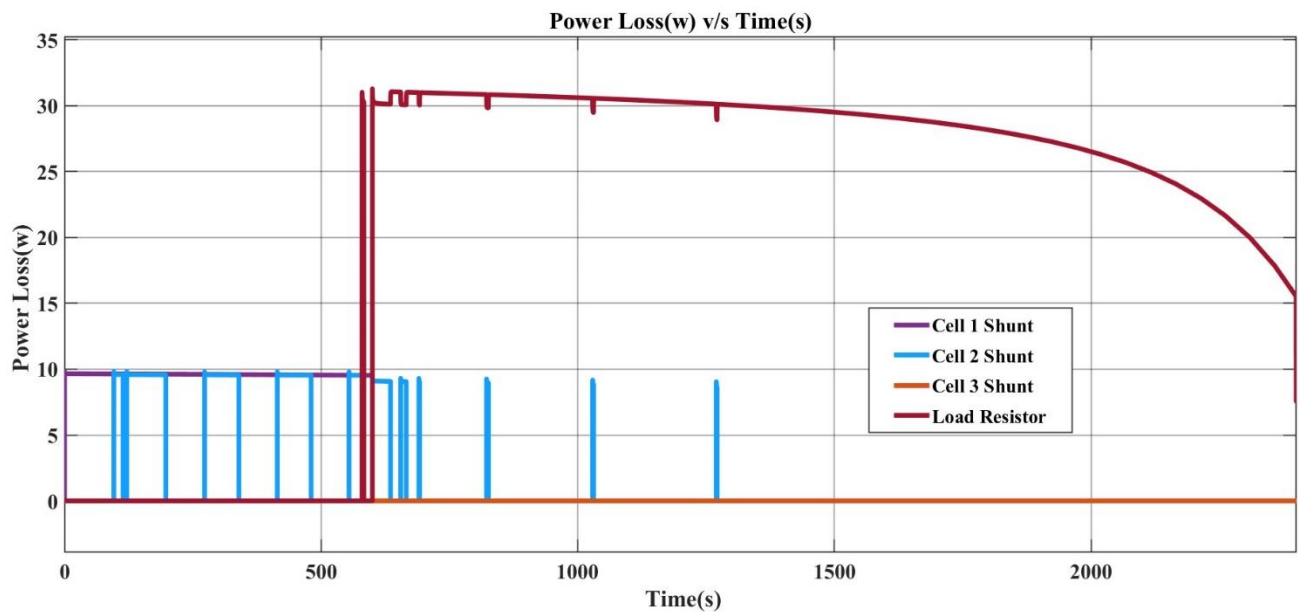
### Voltage Results :



**Fig 3 : Voltage Results of Balancing and Discharging by Min SoC BSP Strategy**

In **Fig 3** at initial all the cells have the voltage 3.7 V. when any cell got balanced then a little spike can be seen in voltage value because of switching action. When all cells got balanced then as soon as they started discharging then their voltage value started decreasing because of discharging process.

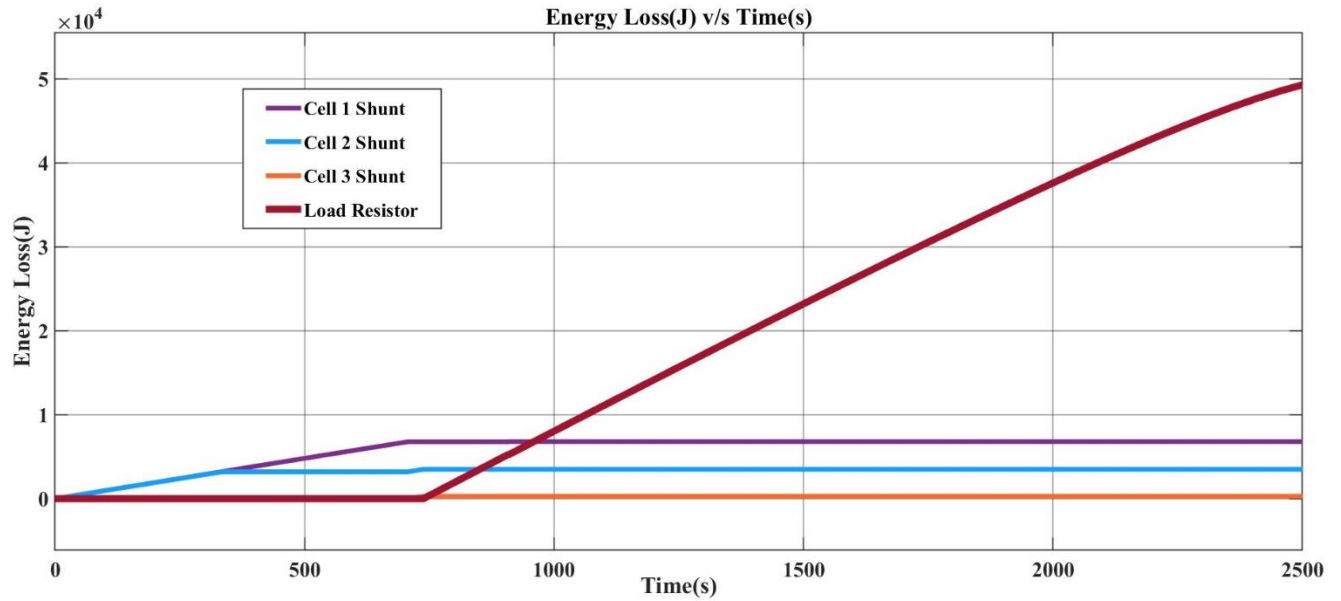
### Power Loss (By Cell Shunts and Load Resistors) Results :



**Fig 4 : Power Loss Results of Balancing and Discharging by Min SoC BSP Strategy**

In **Fig 4** the power loss in the process of balancing and discharging of the 3S1P configuration of passive cell balancing by Min SoC BSP has shown.

### Energy Loss (By Cell Shunts and Load Resistors) Results :



**Fig 5 :** Energy Loss Results of Balancing and Discharging by Min SoC BSP Strategy

In **Fig 5** the energy loss in the process of balancing and discharging of the 3S1P configuration of passive cell balancing has shown.