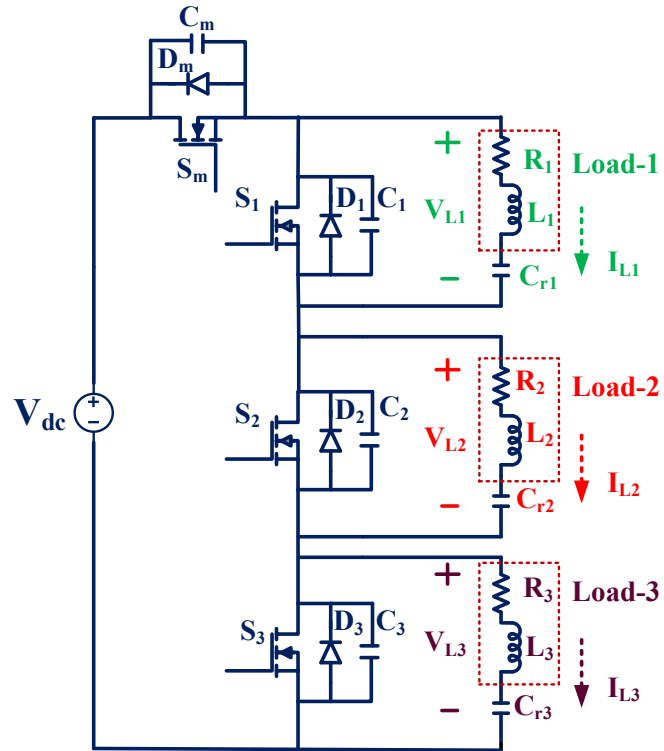
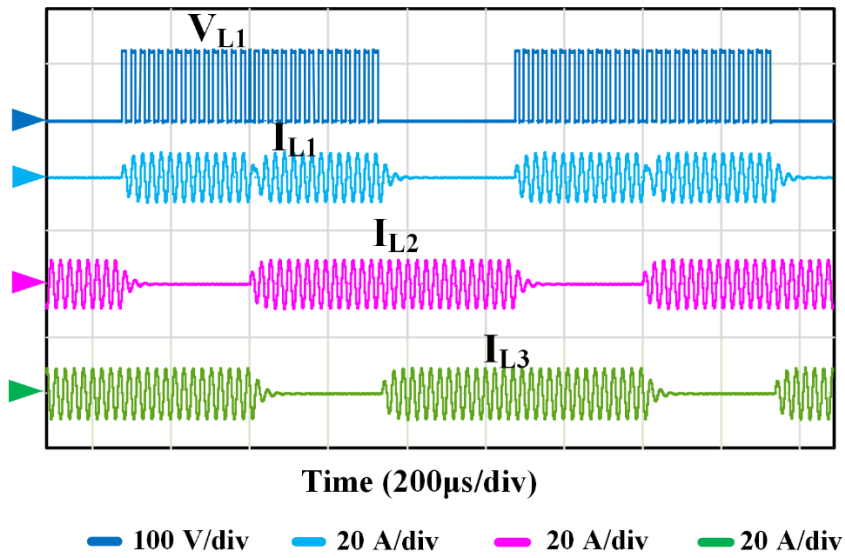


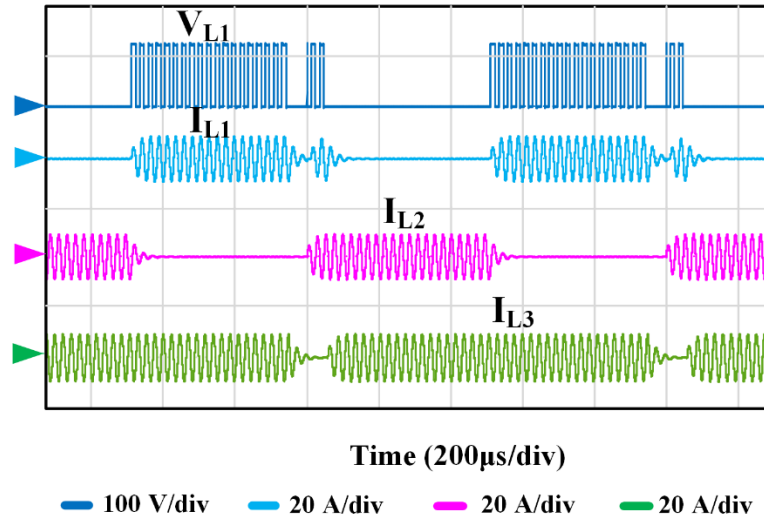
- **Circuit Diagram:**



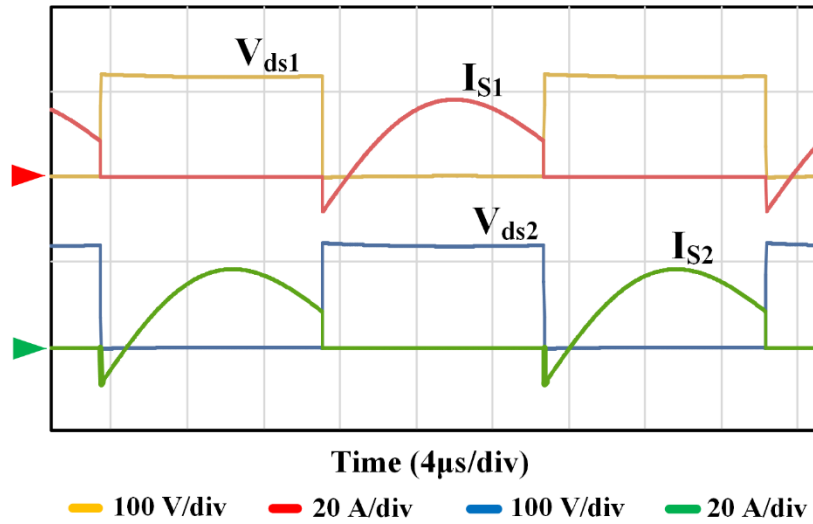
- **Simulation Waveforms**



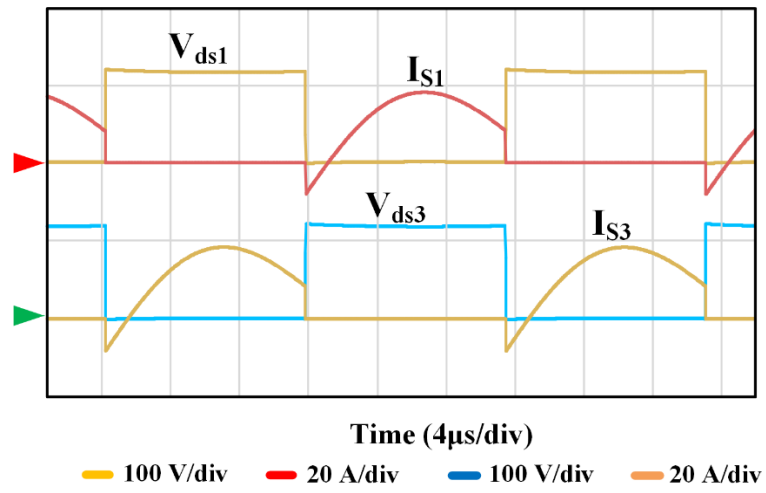
**Fig.1:** Load-1 voltage and all load currents for  $d_1 = d_2 = d_3 = 0.667$



**Fig.2:** Load-1 voltage and all load currents for  $d_1 = d_2 = 0.5$ .  $d_3 = 0.9$ .



**Fig.3:** ZVS waveforms at  $d_1 = d_2 = d_3 = 0.667$ : Voltages and currents for  $S_1$  and  $S_2$



**Fig.4:** ZVS waveforms at  $d_1 = d_2 = d_3 = 0.667$ : Voltages and currents for  $S_1$  and  $S_3$