

DC-AC 3-Phase 4-Wire Inverter $V_o=115/200V$ $P_o=20kW$

DC-AC 3-Phase 4-Wire Inverter $V_o=115/200V$ $P_o=20kW$ Simulation Circuit

Input : $V_{in}=200V_{dc}+200V_{dc}$

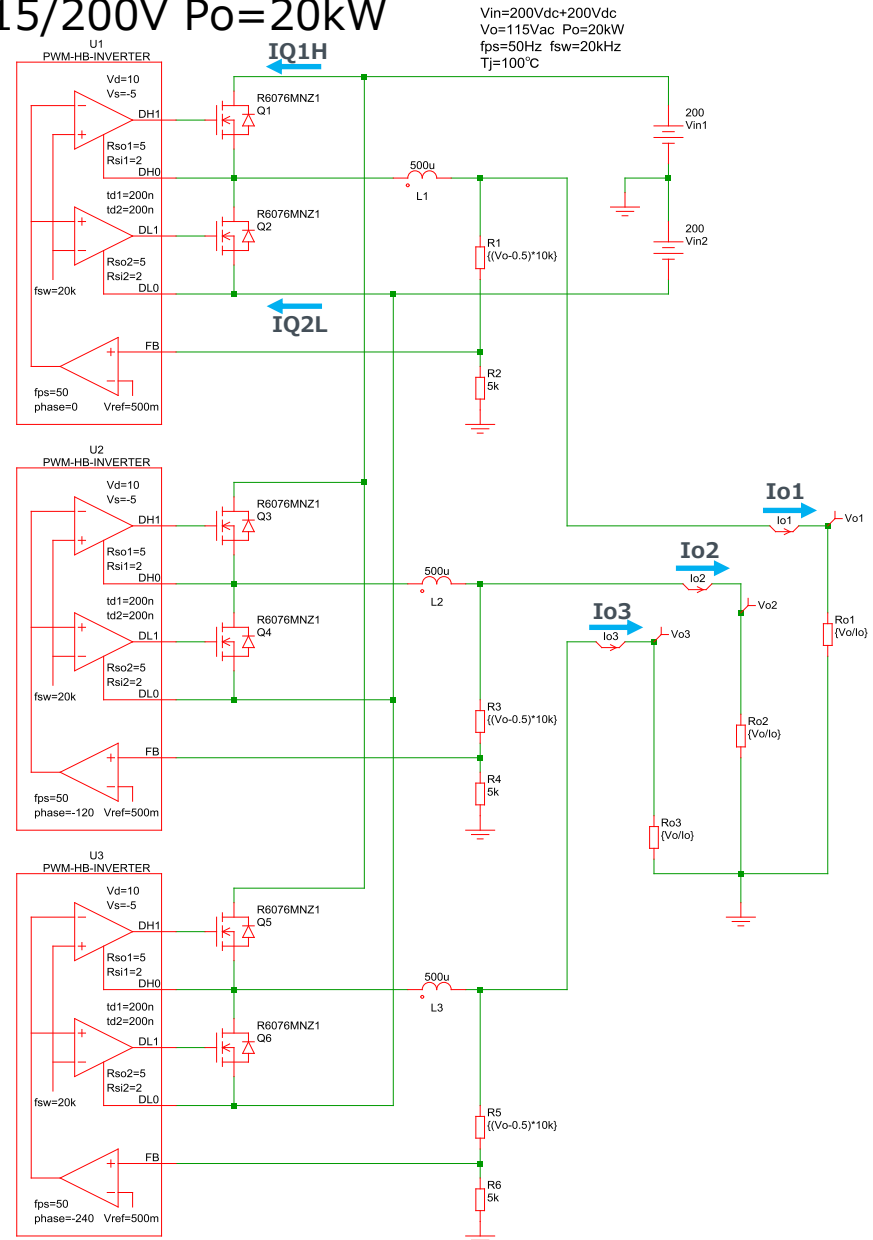
Output : $V_o=115V_{ac}$
 $P_o=20kW$

Gate Drive : $V_d=10V$
 $R_{source}=5\Omega$
 $R_{sink}=2\Omega$

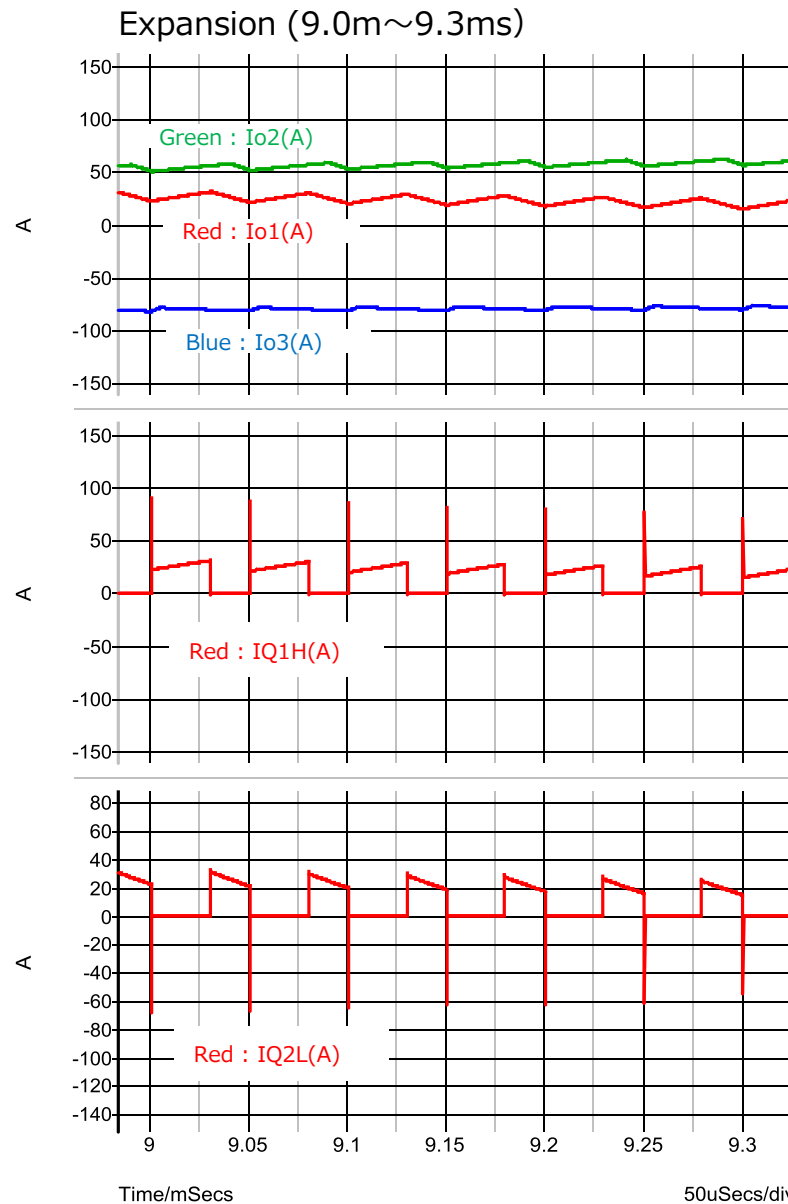
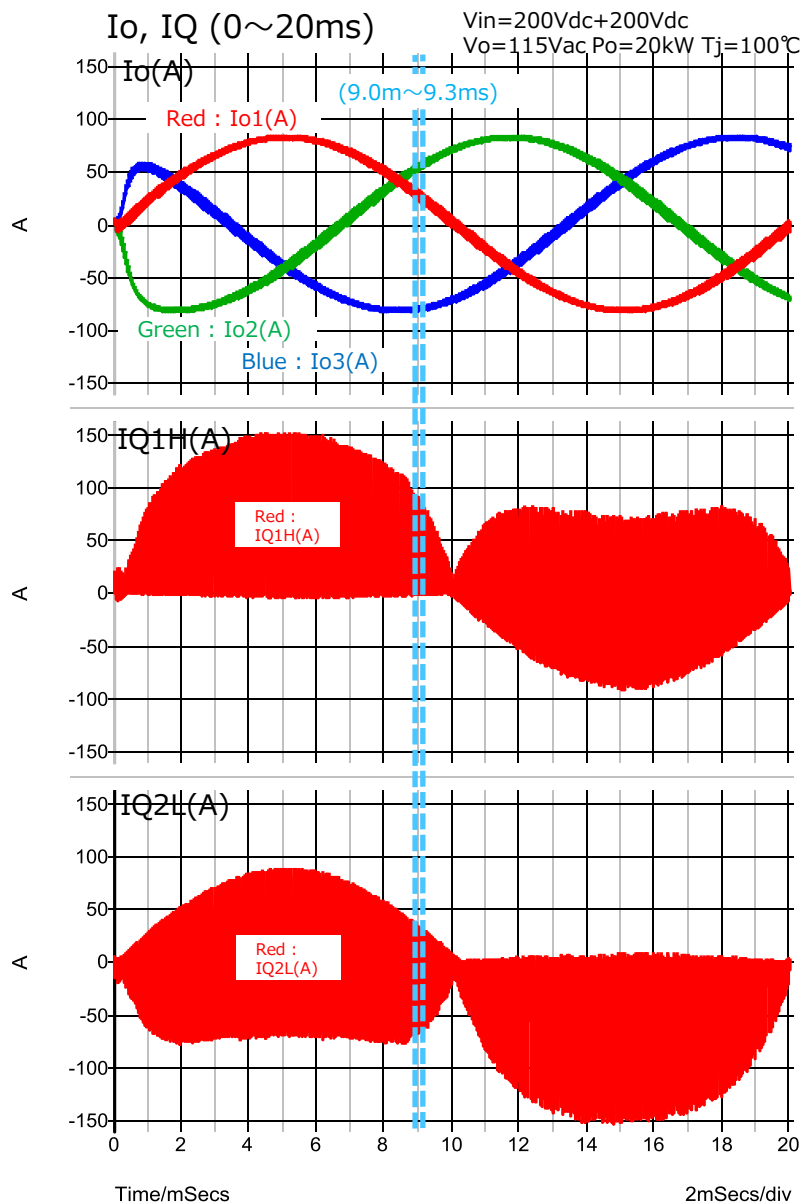
$Q1\sim Q6$: R6076MNZ1
MOSFET(600V 76A)

$L1,L2,L3$: 500uH

$T_j=100^\circ C$



Simulation Waveform



Efficiency, Power Dissipation

